

A U.S. Marine apprehending Haitians after the gunbattle outside the police station in Cap-Haïtien.

Kohl's Partners Keep Hold of Bavaria

Compiled by Our Staff From Dispatches BERLIN - The conservative Christian Social Union, the Bavarian branch of Chancellor Helmut Kohl's Christian Dem-Socrats, fended off the Social Democrats on Sunday to keep its political hold on Ger-

many's largest state, early voting results

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The big losers three weeks before national elections were the Free Democrats, coalition partners in the Bonn government. They did not achieve the 5 percent threshold needed to stay in Bavaria's Par-

The party, led by Foreign Minister Klaus Kinkel, has failed in all five state elections this year to win seats in the state Parliaments.

The Social Democrats' top candidate in Bavaria, Renate Schmidt, said Sunday's outcome indicated that every vote for the Free Democrats in Oct. 16 nationwide elections would be "a vote thrown away." If the Free Democrats fail to return to

the federal Parliament, Mr. Kohl could be hard pressed to continue his 12-year reign as chancellor unless his alliance with the Christian Social Union - the sole exclusively state party that plays a role in Bonn, as a member of the coalition -- wins a clear

On the federal level, Mr. Kohl's Christian Democratic Union and the Christian nion are dacked by about 45 percent of the electorate, according to the

That compares with 38 percent for the

down from 5.2 percent in the last state balloting, in 1990, according to unofficial early results.

The far-right Republican Party failed once again to get into the Parliament that to projections.

Bavaria's premier, Edmund Stoiber, saw his Christian Socialists win 52.8 percent or the vote, down from 54.9 percent, while the

See BAVARIA, Page 5

Social Democrats. The Free Democrats won just 3.9 percent of the vote in Bavaria on Sunday,

sits in Munich, dropping to 3.9 percent from 4.9 percent four years ago, according

Swiss Approve Anti-Discrimination Law

ZURICH - Swiss voters on Sunday approved a government proposal making racial discrimination, racist propaganda and denial of the Nazi Holocaust illegal, the government's information office said.

Final results showed 1,132,326 voters, or 54.6 percent of the total, said, "Yes," to the law, while 939,738, or 45.4 percent, said,

Slightly more than 45 percent of those entitled to vote took part.

The law is based on a 1965 United Nations convention on racial discrimination and was passed by Parliament in June 1993, infuriating rightists. They quickly

force a referendum on the issue. The result came as a big relief for the government, which had seen its advice ignored in four other recent major referen-

dums and feared another defeat. Supporters of the ban said the high number of "no" votes dampened their pleasure over the results.

"I'm satisfied, but not happy," said Rosmarie Dormann, a member of Parliament and president of the Yes to the Anti-Racism Law Committee. She said opponents held a range of views, with xenopho-

bia making up only a small part. Supporters had feared a rejection that

collected the 50,000 signatures needed to would embarrass Switzerland, reinforcing a series of isolationist votes in recent years that have impeded closer links with the European Union and the United Nations.

The government said the changes in Swiss law were needed to close a loophole to ban discrimination against any individual on the basis of race, national origin or

It also would forbid public attempts to incite or spread hatred or discrimination. ban public expressions that injure human dignity and make it a crime to justify, deny or minimize acts of genocide, such as playing down Nazi attempts to exterminate the

Kiosk

Giscard Censures Mitterrand Acts

PARIS (Reuters) — Valery Giscard d'Estaing accused his successor as president of France, François Mitterrand, on Sunday of meddling with justice by slowing legal proceedings against former Nazi collaborators.

"What I don't accept is intervention in judicial procedures," Mr. Giscard d'Estaing, of the center-right Union for French Democracy, told RTL ra-

Swedes Upset U.S. In Davis Cup Tennis

Magnus Larsson defeated Todd Martin on Sunday, 5-7, 6-2, 6-2, 6-4, in the last match of a Davis Cup tennis sentifinal that started with American confidence and ended in Swedish celebration. But the Swedes' improbable 3-2 victory had more to do with an American breakdown than a Swedish breakthrough. Page 21.

Page 4. Books Page 4. Bridge. Page 21. Crossword

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Newsstand Prices

Chic Conspiracy in Italy? **High Fashion Spies Plot in New Inquiry**

By Alan Cowell
New York Times Service

ROME - First came the clothes and the label that made Giorgio Armani a byword for "bella figura," the defining master of

Then came the fall. Mr. Armani became the latest of Italy's high-ticket, high-profile fashion designers to go before Milan's graft-busting magistrates and, according to his lawyer, admitted Saturday to paying a kickback to tax inspectors in 1990.

Now it is time for the conspiracy, or at least the conspiracy theories that are as much a part of Italy as pasta, or corruption inquiries, or Mr. Armani's suits.

"The timing was just too perfect," said Giuseppe Della Schiava, head of Italy's National Chamber of Fashion. "I can't point my finger at anyone in particular,

but I do believe the fact that the news broke right now is part of a propaganda campaign against Italian fashion."

He is not the only one to ponder a link between the flurry of inquiries into the finances of Italy's high fashion and the fact that Italy's annual ready-to-wear shows are about to spring onto the runways of

"Why the designers and not the pastry makers?" said Phillipe Daverio, a senior official of Milan's city council. "Why did they start the investigations now, just a few days before the international shop-window opens in Milan?"

On Saturday, Gianfranco Ferrè, another top-level designer, was interrogated by Milan's best-known anti-corruption investigator, Antonio Di Pietro, And, over the

See ITALY, Page 5

Chaos in Haitian City After Marines Kill 10

CAP-HAITIEN, Haiti — Policemen and soldiers abandoned their posts on Sunday as the junta's authority collapsed in Haiti's second-largest city only hours after 10 Haitians identified as military policemen were killed in a confrontation with U.S. Marines.

The Haitian military leader, Lieutenant General Raoul Cedras, accused U.S. troops in Haiti of atrocities Sunday.

'Cédras accused us of atrocities and demanded my transfer and court-martial." Colonel Tom Jones of the U.S. Marines told reporters in this northern coastal city after a visit by General Cédras and Lieutenant General Hugh Shelton, commander of the U.S. forces in Haiti.

Colonel Jones said Sunday that U.S. troops had fired first in the shootout at the police headquarters in Cap-Haïtien.

Word of the Haitian police and soldiers' departure spread quickly to the streets, bringing hundreds of Haitians out to trash the property of those who had ruled over them. The crowd carried off beds, mattresses, tables, desks, electric fans and stacks of papers. People also showed off identification cards left behind by the police and their dreaded civilian auxiliaries known as "attaches."

In Washington, the exiled Haitian president, the Reverend Jean-Bertrand Aristide, announced Sunday that the Haitian Parliament would convene Wednesday to consider granting an amnesty to the mili-tary junta that deposed him three years

To accelerate the "process of full resto-ration of constitutional order," a parlia-mentary session has been scheduled to study a draft of the amnesty law, Father Aristide said in a statement sent to news organizations.

The firefight outside a Cap-Haïtien police station on Saturday night was the first deadly clash between Haitians and American troops sent to restore the elected government of Father Aristide.

Afterward, policemen and soldiers abandoned the city's main military burracks, police station and about a dozen

At the main military barracks, Haitians

took everything they could get their hands on. Some people fired guns into the air, but many appeared to be handing the weapons over to some of the 1,900 U.S. Marines in Cap-Haïtien.

A U.S. military spokesman identified the 10 Haitians killed in the firefight Satur-

Haiti is likely to receive up to \$550 million in

aid from international donors. Page 5. day as "Haitian military police" but gave

no other details. In New York, President Bill Clinton said in a statement Sunday that U.S. troops were authorized to use force to defend themselves.

"We regret any loss of life in connection with our mission in Haiti, but it must be clear that U.S. forces are prepared to respond to hostile action against them and will do so," Mr. Clinton said.

Given the misfortune U.S. troops had in Somalia last year and evidence that the American public is not entirely convinced of the necessity of intervention here, the firefight raised worries of another unpopular U.S. entanglement in the domestic affairs of a developing country. Congressional critics were gearing up Sunday for an attempt to legislate an early withdrawal

The ransackings in Cap-Haïtien, about 260 kilometers (160 miles) north of the capital, Port-au-Prince, took place in the

friendly atmosphere of a street fair with many in the crowd pausing to thank the Americans for coming. But near police headquarters, a group of Haitians grabbed a man and dragged him

into a house, apparently believing he was an "attaché." After the buildings were ransacked, U.S. Marines occupied them without incident.

See HAITI, Page 5

Firefight Opens a New Debate Over Risk and Role for Forces

gunfire ending a week of relative calm, senior American officials warned Sunday that the firefight that took 10 Haitian lives may be a forerunner of more violence.

"This is the first bad incident we've had involving, directly, American troops, but it won't be the last," said the chairman of the Senate Armed Services Committee, Sam Nunn, the Georgia Democrat who was a member of the delegation that brokered the deal with the Haitian military on the entry of U.S. forces.

U.S. Marines killed 10 armed men Saturday evening outside a police station in the northern coastal city of Cap-Hai-

It was the first violent incident involv-

Compiled by Our Staff From Dispatches ing Americans after a surprisingly peace-WASHINGTON — With the flash of ful first week of U.S. occupation, and it drew quick comparisons to hostile at-mior American officials warned Sun-

While administration officials responded by reassuring the American public, congressional critics geared up for an attempt to legislate an early withdrawal from Haiti.

President Bill Clinton, in New York for a meeting with United Nations Secretary-General Butros Butros Ghali, issued a statement expressing regret for the loss of life and saying: "It must be clear that U.S. forces are prepared to respond to hostile action against them and will do

Speaking later in a Harlem cnurch, Mr. Clinton lamented the difficulty of See FIGHT, Page 5



GIFT TIME — Yasser Arafat, the Palestinian leader, presenting a Torah scroll to Prime Minister Yitzhak Rabin of Israel Sunday as they met in Ezer, in the Gaza Strip. They agreed to start negotiations next week on elections.

Asia Talks Founder in a Stormy Sea

By T. R. Reid Washington Post Service

SEOUL - Although the negotiating nations have not been fast friends in the past, things seemed to be going well this month when delegates from China, Russia, Japan and South Korea met here to discuss a plan for pollution control in the Sea of Japan.

Then the South Korean press got wind of the meeting, and the negotiators were suddenly engulfed in a tsunami of public protest that threatened to sink the project.

It wasn't that people here were upset about the environmental plan's technical details. Rather, the outrage was directed at three words at the top of the document: "Sea of Japan."

Around the world, virtually all maps and all international geographic organizations agree that the body of water between Japan and the Asian mainland is the Sea of Japan. But in Korea, those words evoke angry memories of Japan's 40-year occupation of Korea in the first half of this

Since ancient times, the Koreans have referred to the sea off their east coast as the

Across the sea, in Japan, the same body of water is known as Nihon Kai, or the Sea Japan.

This name was apparently picked by European navigators during the age of exploration, according to Takehide Hishiyama of Japan's Geographic Survey Institute. The oldest known map of East Asia, drawn by the Jesuit missionary Matteo Ricci in 1602, uses Sea of Japan. When the Japanese colonized Korea in

this century, they outlawed the Korean See SEA, Page 5

Cru des Ptolémées Has an Image Problem: All Its Years Are Lousy

By Chris Hedges New York Times Service

TAFTISH AL-BAHARY, Egypt -Said Ibrahim never met a bottle of wine he didn't like.

"No matter what happens, we can always fix it," said Mr. Ibrahim, an official at Egypt's only winery. "We don't throw anything away."

But despite 23 years of making and

doctoring Egyptian wines like Cru des Ptolemees, Nefertiti, Omar Khavyam and Reine Cleopatre, Mr. Ibrahim has no stomach for his own product. "I don't let it in my house," he said, seated in his office at the Gianaclis win-

ery in this village northwest of Cairo. "I

have to taste it here. That's enough."

Some of the first wines in the world came from ancient Egypt. Today, the country offers some of the worst.

The U.S. Embassy has warned tourists and foreign residents to avoid local alcohol, which it says can cause blindness and even death. Those who do drink it complain of gargantuan hangovers.

"I mix the rose with Seven-Up to give it some taste," said John Rees, 28, a teacher of English, as he sat in a bar in Cairo, "but even then I get terrible headaches and diarrhea. The wine tastes and smells like vinegar. It is often a musty, brown color and the corks are dirty. We throw a lot away."

imports of foreign alcohol and taxes it so heavily that a bottle of French table wine costs \$40, many have no choice if they want to drink wine. Egyptian wine costs \$4.50 and tourists often order it -once.

Egyptian Vineyards Co., which says it sells 240,000 bottles a month, has a monopoly on wine production in Egypt. It is one of 10 state companies that the goverament has agreed to privatize as part of a long-delayed economic program

backed by the World Bank. But after four months, the company, which the government hopes to sell for \$67 million, has yet to receive a bid. The Gianaclis winery, founded by

Nestor Gianaclis in 1903 and national-ized in 1969, is situated along a canal in a remote area just east of the desert road to Alexandria.

Its 10,000 acres of vineyards are unkempt. Peeling yellow stucco buildings surround mounds of discarded green bottles, rotten grapes, old wooden bar-

rels and a dirty bottling plant,
"We lay out bottles and see dirt floating around in them," said Heba al-Sayid, a Cairo restaurant owner. But in the winery they said they had given up long

ago on the local market. *Egyptians won't drink our wine," acknowledged Abdel Moti Abdel Salaam, who, like most workers at the winery

does not drink what he makes, "and there seems no way we can get them to start. We target the tourists."

The managers of the company say their image problem is unfair. They blame bootleggers, saying they pour their own concoctions into old bottles and sell them under the brand names.

"People drink this stuff that has our label on it and get poisoned," said Raouf Abu Kila, a manager at the winery.

"Things were especially bad after President Mubarak's pilot drank our whiskey and went blind. But the truth is, Egyptian wine is better than French wine. After all, the French don't have the



By Steven Brull onal Herald Tribune TOKYO - There probably is no one in Japan who has not endless tape-loop inside the his name or face.

At 36, Jun Miyake has althan 1.500 television commercials, including ones for Sony, Toyota, Kirin beer and Cocabubble economy a few years ago, he was writing the music for more than 200 commercials a year. He was in such demand that at one point, Japan's five major department stores were simultaneously airing commercials using his mu-

Today, although he continmusic that is decidedly uncommercial. Last year, he put up \$250,000 of his own money to produce an album that was not constrained by practical aims. Released by Sony Records

in Japan, "Entropathy" is an elaborate yet immaculately recorded production that achieves a surreal sensibility by linking a series of musical vignettes ranging in style from traditional Japanese to Caribbean island to Rudy Vallee. It was co-produced by Hal Willner, who is known for hir-

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Thelonious Monk, Kurt Weill, Walt Disney and others.

"Everything in art is satu-rated," Mr. Miyake says. "The heard one of his tunes like an quick way to get out of the struggle is to keep mixing until brain, but few can recognize you find something totally

The record has sold reasonready written music for more ably well for alternative music, but so far his subsidy is still much higher per disk than the list price. He doesn't seem to Cola. At the peak of Japan's mind. He still hopes to sell the

rights overseas.

Besides, "Entropathy" represents a full circle for a trumpeter who became disillusioned with Tokyo's corporatist jazz scene and whose creative drives are increasingly frustrated by execu-

"I was afraid of being conues to write jingles, albeit at a slower pace, his heart lies in nies, so I went alone," he says, explaining why he put up the money before he landed a contract and why he haggled with Sony for more than a year to secure overseas rights to the recording.

In Japan, composers for television commercials are paid one-time fees, unlike the United States and other countries where writers receive residuals. As a result, Mr. Miyake has earned just a fraction of what he would have for similar work elsewhere. Still, he has done well enough to

al Monetary Fund gets under

way later this week in Madrid.

Lewis Preston, who became the

World Bank president in 1991

after a 40-year career at J. P.

Morgan, discussed budget cuts

and other issues with Alan Fried-

man of the International Herald

Q. President Bill Clinton and

Group of Seven summit meet-

ing in Naples said they wanted

to study what reforms were

needed at the World Bank and

and 7-year-old daughter, and to be chauffeured about town in a Saab.

Far from ostentatious, though, he has the deep-seated calm of someone who swims and practices trumpet daily and likes to take long midnight strolls, notebook in hand. "Doing the same thing every day is my method," he explains. "That way I find a different part of myself every

Mr. Miyake's self-discovery got into gear when he defied the wishes of his parents and enrolled as a performance ma-jor at the Berklee College of Music in Boston in 1976, Like many students there, he learned more outside the classroom than in. He spent more time in New York than in Boston, much of it playing trumpet and hanging out with Terumasa Hino, the dean of Japanese jazz trumpeters, who had taken Mr. Miyake under his wing several years earlier.

After graduating in 1980, he moved to New York, supporting himself by working at a Japanese restaurant and staying on a visa acquired through a fraudulent English-language school. But with gigs scarce, he

returned to Japan.

"After returning I felt hopeless," he recalls. "The feeling was missing, and the music wasn't natural to the city or ing artists as disparate as Tom rent a sprawling apartment in the people. It sounded artifi-Waits, Sun Ra and Keith the fashionable Daikanyama cial Jazz society here is in bethe people. It sounded artifi-Richards to record tributes to district of Tokyo for his wife , tween the apprentice system

A. The most important issues

for the bank are selectivity and

cost effectiveness. Until a year

ago the bank did not even have

instrument chosen by the G-7.

And we should not try to be all

things to all people. At the Ma-

drid meeting, Kuwait's Abdul

new committee that looks at

Q. Since you took over as

president in 1991 the World

Bank's administrative budget

has risen by 44 percent, to \$1.4

billion, and there is now a staff

of 8,338, including 2,000 out-

side consultants. You recently

needs to be done?

cost effectiveness.

other leaders at the recent Latif Mohammed will chair a



and the hierarchical system. It's almost like a Japanese company." The small things bothered him, he said, such as the time he saw an older bass player poke his bow into a younger player.

Mr. Miyake had a stroke of luck in 1983, when TDK, the tape manufacturer, offered him a generous budget to produce a record that also would vision commercials. That recording, along with a similar chael Brecker, David Sanborn and other prominent jazz per-

From then on, he slowly built up his name as a writer.

The offers became a flood af-ter his third album, which became a bible of music for TV commercials in Japan.

"People started asking me to imitate myself, but after a while I refused," he says. "Most composers are yes-men to the concept, but I have a hard attitude. In commercials, the film always comes first. But sometimes I tell them to change the edits. Sometimes they do; sometimes I lose the job. It's always on the edge. But this is what you have to do to keep your creativity in Ja-

Fortunately for him, as Jalate 1980s the tolerance for fresh ideas was at its zenith.

"Most products were selling," he said, "so the commercials were all about image, which is about imagination."

Mr. Miyake was allowed to indulge his fascination for musical juxtaposition in spots that combined spaghetti Western melodies with reggae back beats and Debussian harmonization, or Japanese popular melodies sung by Africans with Indian percussion. His work won Clio, Dentsu Adver-tising and Cannes International Advertising and Film Festi-

val awards, among others. "I was getting really high by writing all the time," he said. To make people feel an impact in 15 or 30 seconds, you have to be really intense."

He also managed to find time to be music director at Bohemia, a now-defunct jazz bar that was an oasis for underground artists in Tokyo. He stretched local imaginations by booking acts such as a solo accordion player and by stripping singers of their usual back-up bands, creating uncluttered performance contexts. He also led his own band, which was on a crusade

Although he is quite com-fortable at a pace of fewer than 100 commercials a year — he can put together a demo in just a few hours — he says he feels a nagging discomfort here. His pan's economy inflated in the goal is to write music for films and to live and perform half

WORLD BRIEFS

Swedish Support for EU Entry Grows

STOCKHOLM (Reuters) - Swedish supporters of European Union membership outnumber opponents for the first time since

early 1992, a poll published Sunday showed.

The Sifo poll in the daily Goteborgs-Posten showed that 40 percent would vote to join the EU in a referendum on Nov. 13 while 38 percent would say "no" and 22 percent were undecided. Sweden's government hopes to gain the country's entry into the European Union along with Norway, Finland and Austria on Jan.

Pope Is Subdued at Sunday Prayers

ROME (Reuters) - A subdued-looking Pope John Paul II held his regular prayers on Sunday, ending a week marked by tising worries about his health.

The Pope was helped as he took his place at the lectern at a window of his residence of Castelgandolfo from where prayers were led. The Pope, who called off his trip to the United States us speed his recovery from a broken leg, spoke for about 20 minutes in a monotone to several hundred faithful at Castelgandolfo. He made none of the spontaneous comments and jokes that are the frequent hallmarks of his Sunday ceremonies.

Toll Mounts in Philippine Mudflows

PORAC, Philippines (Reuters) — Philippine Army helicopters
on Sunday plucked scores of people from treetops and rooftops as
mudflows from Mount Pinatubo buried more than 1,000 houses
and killed at least 23 people

and killed at least 23 people.

President Fidel V. Ramos flew over devastated areas in Pampanga Province and ordered relief operations stepped up after seeing rivers of steaming mud flowing down the volcano 100.4 kilometers (60 miles) north of Manila.

Officials threatened to forcibly evacuate thousands of residents who refused to abandon their homes in areas lying in the path of the avalanche of mud that has submerged almost 1,400 houses and ravaged 15 villages in Porac and Bacolor districts in three days. Flows of up to four meters (13 feet) in some places, have burst dikes set up by villagers around their communities.

China Shoots 64 in Mass Executions

HONG KONG (AP) - Authorities in two Chinese cities have executed 64 people in two days on charges of murder, rape and robbery, a pro-Beijing newspaper here reported Sunday.

A total of 45 people were executed after mass sentencings on

Friday in Wuhan, capital of Hubei province, in the biggest executions in that city since 1983, the newspaper, Ta Kung Pao.

Those executed included Xu Wurong, who strangled her husband because she was having an affair with another man, the paper said. The newspaper also reported that 19 people were executed Saturday in Guangzhou. Executions are carried out in China by a bullet through the back of the head.

Russia to Discuss Rehabilitating Czar

MOSCOW (Reuters) — Russia's Parliament is to take a new look at how to rehabilitate Czar Nicholas II, killed in 1918 on the orders of Lenin, a top parliamentary official said Sunday.

A news statement from the State Duma, the lower house, said the parliamentary chairman. Ivan Rybkin, promised to do so to Grand Duchess Leonida Georgievna, a relative of the last czur's by marriage. She was in Russia for a reburial ceremony for Grand Duke Georgi, Czar Nicholas's younger brother, who died of tuberculosis in 1898.

"During the meeting she requested that the remains of former Emperor Nicholas II, his wife and children and those who died with him be reburied according to Orthodox Church traditions." the statement said. "Rybkin listened to the request with understanding and told her that Duma deputies intended to consider

For the Record

A flash flood roared down a mountainside into a stream in Thailand on Sunday, killing at least 17 vacationers and leaving 11 missing at Wang Takrai park, 90 kilometers (55 miles) northeast

At least 18 people died on Saturday in clashes between Muslim militants and Indian security forces in the Kashmir Valley of India, the police and hospital sources said in Srinagar. (Reuters)

TRAVEL UPDATE

A Timely New Rule for U.S. Airlines

WASHINGTON (AP) - Travelers will be able to get more accurate reports of airlines' on-time performance and may be eligible for more money when their baggage is lost under new U.S. Transportation Department rules.

The new rule for on-time performance takes effect Jan. 1, requiring that airlines include delays caused by mechanical prob-lems in their monthly reports. Currently the largest carriers are required to report the share of departures and arrivals that take place within 15 minutes of schedule. That is considered to be on time. But the rules exempt flights delayed by mechanical problems. That exemption will be eliminated.

The department also proposed to increase the limit on compensation to people whose baggage is mishandled to \$1,850. The current limit, set a decade ago, is \$1,250. The department said it would seek comment on the proposed limit and whether it should be increased to \$2,000 or tied to the inflation rate.

The former China Beach base in Vietnam used by American servicemen as a rest and recreation center during the Vietnam War is to become the country's biggest tourist complex under a \$250 million joint venture involving BBI Investment Group of the United States and a Vietnamese tourism group, press reports said Sunday.

More than 170 people have been hospitalized with dysentery in Russia - 112 near Kemerovo, in Siberia, and 60 in Orenburg. near the Kazakhstan border, the Itar-Tass news agency said

The Italian Health Ministry sought Sunday to calm fears that Albanian immigrants were bringing cholera to Italy, saying that laboratory tests on food, drains, water supplies and arriving Albanians so far had turned up no evidence of the disease. (AP)This Week's Holidays

Banking and government offices will be closed or services curtailed in the following countries and their dependencies this week because of national and religious holidays:

MONDAY: Yemen TUESDAY: Belgium, Ethiopia, Israel

WEDNESDAY: Taiwan FRIDAY: Botswana, India.

SATURDAY: Botswana, Burma, China, Cyprus, Macao, Nigeria.

Sources: J.P. Morgan, Reuters.

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Jun Miyake: "Everything in art is saturated."

be used for the company's teleone the next year, enabled him to record with Ron Carter, Mi-

Q & A: Belt-Tightening Inside the World Bank The annual meeting of the other Bretton Woods institu- system into the budget. The thus failing precisely the people too slow with aid that was World Bank and the Internation- tions as we approach the 21st challenge was to initiate loans century. What do you think and nobody worried much about implementation. So the bank got stuck with a budget system that kind of distorted

> Now, we have the obligation a cost accounting system. We to be cost effective, especially should not be in every case the since our donor countries are going through serious fiscal constraints. To give the operating people a sense of the plain and simple wish to raise cost consciousness we have set down these new parameters for the next couple of years. But this should not affect our service to our clients.

> > Q. Will that mean also cut-

be cost effective we should look \$23.7 billion. Was that a delibdirected World Bank vice presi- at how we do things, and if erate move? dents to seek real budget cuts of there are too many people we between 4 and 6 percent over will have to exercise some judgthe next two years. Tell me ment. There is a significant about your plans to cut costs. number of consultants.

A. The budget has been rising since the days when Robert Mc-Namara ran the bank. I think Bob was quite rightly trying to

Namara ran the bank is think bondoggle projects, and that structural adjustment programs

Of The World Bork and IMF stimulate lending activity in the are hurting the poorest people

they are supposed to help. What promised to Russia. What is is your response to this criti-A. The bank is trying to be

more transparent. I think the critics don't realize that when the fund and the bank are called in, the situation in these countries is in extremis, with inflation out of control. The people hurt by that are the poor. This institution should be very sensitive to the impact on disadvantaged people. But until you get economic growth you are not going to alleviate poverty. When you are sick with cancer you need chemotherapy — and it is no fun, but you need it.

Q. In your last fiscal year the ting the staff numbers? bank reduced total new commitments to \$20.8 billion from

A. Yes, and it was a consequence of the enormous private sector flows which are going to these countries. It is important

Q. The World Bank and IMF who are reluctant to do some-1970s, and he built an incentive in developing countries, and have been criticized for being thing an impetus.

been disbursed, largely because they have not met the requirements on conditionality. Elsewhere the situation is uneven. There has been terrific progress in places like the Czech Republic and Poland, a little slipping in Hungary but it's O.K. there. The Baltics are doing well, and particularly Estonia. Q. The recent population

your comment on Russia and

on prospects for the transition

to market economies elsewhere

A. I don't agree with the criti-

cism. In Russia we have \$3 bil-

lion committed, and a third has

in Eastern Europe?

conference in Cairo got bogged down because of the Vatican's violent opposition to abortion. What is your view?

A. I think the Vatican's early intention on abortion was regrettable, but I think the consensus that emerged on women's education and gender issues and the rights of women in economic life is really terrific. It will give those politicians



Turbulence Tied to U.S. Crash

By Don Phillips Washington Post Service

WASHINGTON - Federal investigators have determined that the USAir Boeing 737 that crashed near Pittsburgh two weeks ago, killing 132 people, probably entered turbulent air gation said one theory was that knew early that the other airlinabout four miles ahead, according to officials.

"Wake turbulence" from the Boeing 727 flying ahead would not have been enough by itself to have caused Flight 427 to spiral from a clear sky almost the ground. The two airplanes limits, and experienced 737 pilots generally fly through such turbulence hundreds of times. **But National Transportation**

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looking into the possibility that the turbulence, which burbled into the 737 six to eight seconds before it began its dive, might be one link in a chain of events leading to disaster.

Sources close to the investicaused by another plane flying the crew might have overcompensated in taking control of the plane from the autopilot after the turbulence hit. But they emphasized that it was only one of many theories about a crash that has defied explanation.

ported sudden uncommanded rudder movements, which had to be controlled with their rudder pedals. The Federal Aviation Administration ordered inaircraft had been inspected.

A board member, Carl W. Vogt, confirmed that wake turbulence was an issue in the inquiry but said numerous other issues were on the table and still others might emerge. Mr. Vogt said the board

er was 4.2 miles (6.8 kilometers) -about 70 seconds -ahead of the 737, but now has learned that the altitude difference between the two was such that the wake would have hit Flight 427. All aircraft create wakes, spi-

Sources also said tests on the rais of air that churn off wings 5,000 feet (1,500 meters) into plane's rudder system had in flight, moving back and the ground. The two airplanes turned up no problems so far. somewhat downward from the were within required separation. In the past, 737 pilots have replane. Such wakes can be dangerous for small planes and occasionally cause problems for jetliners that venture too close. For that reason, U.S. regulations set minimum distances for spections of the rudder following planes. Flight 427 mechanisms, and Flight 427s was beyond the required threemile separation.



Not to Worry: **Channel Tunnel** Designed to Leak

LONDON - The Channel Tunnel between Britain and France is leaking, but the owners are not worried. Eurotunnel, which is sched-

uled to open the railway tunnel to passengers from mid-November, confirmed press reports of salt water accumulating in some parts of the tunnel but said this was not serious. The tunnel is designed to

leak and will continue to leak for the next 50 years," a spokesman said. He said that for every kilometer of tunnel, there are 600 joins in the lining of the wall and in four places the tube designed to take water to the drains had become clogged with

"We didn't expect the clogging, but it is a very minor issue," the spokesman added.
"We are talking about a bucket or two of water over a matter of

The tunnel was officially opened in May by Queen Eliza-beth II and President François Mitterrand. The twin tunnels are to carry trucks and cars on a train under the channel in just 35 minutes between Folkestone, England, and Calais,

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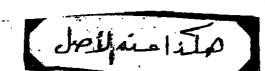
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THE AMERICAS / DATE OF



Gerry Adams, left, being escorted to a news conference in Boston by Mr. Kennedy.

IRA Chief in U.S. to Raise Support

The Associated Press

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BOSTON - Sinn Fein's leader, Gerry Adams, has begun a two-week U.S. tour aimed at building American support for a peace settlement in Northern Ireland palatable to Irish

Mr. Adams said Sinn Fein, the Irish Republican Army's political organization, would consider a coalition government with the British, who rule Northern Ireland. But the Irish "have the intelligence and the

wit and the right to govern ourselves, whatever we decide," he said.

Senator Edward M. Kennedy, Democrat of Massachusetts, joined Mr. Adams at a press conference when the Sinn Fein leader arrived Saturday in Boston,

Mr. Adams and Mr. Kennedy urged Prime Minister John Major of Britain not to get bogged down in seeking a permanent ceasefire from the IRA but to begin negotiating

Clifford Rejects Fraud Charge

By Sharon Walsh and Kim Masters Washington Post Service

WASHINGTON - The missing millions from the estate of W. Averell Harriman might be attributable to bad business judgment but not to fraud, according to Clark M. Clifford.

Recalling that he served with Mr. Harriman as far back as the Truman administration, Mr. Clifford called his service as a trustee for the estate "an accommodation," something "you do for old friends."

perfect right to criticize us for tions to protect the interests of moment, been lost.

Mr. Clifford said that, in any grandchildren.

event, no one could hold him financially responsible in the case, since Mr. Harriman had agreed that Mr. Clifford would not be liable for any losses incurred in his role as trustee. The agreement was renewed after Mr. Harriman died, he said. Mr. Clifford's was respond-

ing to a lawsuit filed by Mr. Harriman's heirs against his widow, Pamela Harriman, now the U.S. ambassador to France, and Mr. Clifford and other advisers. The suit, filed last week said. "What bothers me here is the in federal court in New York, charge of fraud," he said in an paints a picture of trustees who stantial part of one of Ameriinterview. "There's no fraud poured more than \$30 million ca's great fortunes - Mr. Har-He added that "somebody has a the most rudimentary precauman — has, at least for the

having bad business judgment." Mr. Harriman's children and

"This case is about faithless fiduciaries who betrayed a trust and squandered a family's inheritance," the suit says.

The trustees and others, in a series of interviews, deny they were negligent, and they say that the investments still have great value and that the heirs' motives in suing are based on a long-standing animosity toward Pamela Harriman.

"The heirs were deeply disappointed when their grandfather married at age 80," Mr. Clifford

Moscow hopes that recent Not in dispute is that a subsigns of greater economic and political stability, and particurly its success in reducing inhere. That's an awfully ugly in trust funds into transparently riman was the son of the flation to 5 percent a month, charge that's not sustainable." bad investments without taking railroad magnate E. H. Harri- will stimulate trade and help overcome Americans' fears of

doing business in Russia. That hope is shared by the U.S. government, which reduced aid for Russia to \$850 million this year from \$2.5 bil-lion in 1993. (Stability, however, is relative: On Thursday, the ruble dropped 5 percent against the dollar, its steepest dive in eight months, then bounced

back 2 percent the next day.)
"We are encouraged by signs of stabilization and vigor in the Russian economy," said a high-LOS ANGELES — A little ranking American official involved in preparations fro the talks. "We would like to use the summit to emphasize private-

To sweeten the pot. Washington is reserving nearly \$30 million of its 1994 Russian aid for

oversnadowing the start of jury selection is the presiding judge's threat to pull the plug on television coverage of the trial because of what he called

Mr. Clinton will try to persuade Mr. Yeltsin of the need to

Away From Politics

 Six Alaska native corporations and the Kodiak Island Borough municipality were awarded \$7.9 million by an Alaska Superior Court jury in compensation for land and archaeological damages caused by the 1989 Exxon Valdez oil spill. The plantiffs had sought a total of \$120 million.

 The Coast Guard mounted an air and sea search at Neah Bay, Washington. but could not find an elusive oil slick reported near a major wildlife refuge. The spill of heavy fuel oil was found Friday at three sites.

• The wife of a former San Francisco police chief died after smoking crack co-caine. Richard Hongisto said his wife, Susan Chavez Hongisto, was found dead several hours after leaving their house after an argument. She had had a history

Regiers, AP

Probe Finds New Spy Damage Report Faults Top CIA Supervisors for Ames

By Walter Pincus Vashington Post Service

WASHINGTON - The drich H. Ames has found that tainty about its post-Cold War the veteran counterintelligence officer exposed 55 clandestine U.S. and allied operations over nine years, far more damage than previously acknowledged, according to sources familiar with a draft of the findings.

The 400-page classified document, prepared under the direction of Inspector General Frederick P. Hitz, attempts to explain what happened as a re- mission and allegations of raand how the longtime officer was able to avoid detection these sources said.

The inspector general's reto recognize the importance of nal search for a Soviet mole.

By Alessandra Stanley

New York Times Service

this week, America will witness

The Russian president aims

"His personal charm can do a

president will explain that such

changes are already happen-

General Assembly. He will hold ly humiliating and has a summit meeting with Presi-

But mostly, in business meetings in New York, Washington and Seattle, Mr. Yeltsin hopes sia after his puzzling behavior

to persuade American execu- last month in Germany during

tives that Russia is a blue-chip the final withdrawal of Russian

American businessmen will tell after a champagne lunch and him what are the necessary congrabbing the conductor's baton

ditions for investment, and our for an antic try at conducting

troops.

to do statesmanly things, of course. He will address the UN

the return of a salesman.

dent Bill Clinton.

investment

MOSCOW — When Boris N.

agency's highest ranks comes knowledged. when its future is uncertain. It is CIA inspector general's investi- wracked by internal turmoil gation of the confessed spy Al- caused by budget cuts, uncer- early retirement or even dis-

> There is a cry from Capitol Hill for 'heads to roll' as a result of the Ames debacle.

sult of Mr. Ames's duplicity cial and sexual discrimination. Congressional critics have become increasingly restive. while supplying highly sensitive some calling for reorganization information to Moscow, includant and a few for abolition of the ing the identities of more than agency. There also is a cry from 34 secret U.S. and allied agents. Capitol Hill for "heads to roll"

Yeltsin Ready to Make a Pitch

Yeltsin visits the United States son-Vanik amendment, a law noticed a pretty significant up-

Soviet Union's trade privileges

to its handling of emigration.

amendment obsolete and deeply humiliating and has com-

During the visit, Mr. Yelstin

Russian television showed

American businessmen in

lot," said Georgi A. Satarov, a Mr. Yeltsin stumbling on the Major of Britain in informal senior aide to Mr. Yeltsin. "The steps of the Berlin City Hall talks touching on Bosnia, the

the orchestra himself.

en the Russians' mood, he Russia say that the investment

signed a declaration last week climate in Russia has improved

freeing Russia from the Jack- over the last four months. "I've

passed 20 years ago to link the swing on fact-finding mis-

Mr. Yeltsin considers the Chamber of Commerce in Mos-

He's Aiming to Woo Businessmen During Visit to U.S.

This broad criticism of the CIA previously has publicly ac-

Sources said that the report could lead to the reprimanding. missal of a number of important agency officials. Such personnel actions in response to internal crises have been extremely rare at the CIA, which has always prided itself on a powerful sense of team loyalty.

According to the findings in the draft report, that institutional loyalty and indifference helped protect Mr. Ames, particularly inside the directorate of operations, the largest element of the CLA whose roughly 6,000 officers manage and conduct clandestine activities,

For example, after a poor performance in Mexico, where he showed bouts of alcoholism and complained about needing as a result of the Ames debacle. money, Mr. Ames was rejected A senior CIA official said by the Latin American Division port puts the blame initially on that the inspector general's re-as deputy chief of station in the "almost complete indiffer-port represented "the end-Bogota. Nonetheless, when he as deputy chief of station in ence of senior CIA supervisors" game' in a scandal that has returned to CIA headquarters who, beginning in 1986, failed "shaken this organization badhe was given a highly sensitive ly." The 55 clandestine opera- post as chief of the counterintheir losses and did not put "ad-tions exposed by Mr. Ames, ac-telligence branch of the Soviet equate resources" into the inter- cording to the report, is about Division, where he had access double the number that the to the identities of U.S. agents.

sions," said Peter A. Charow,

the president of the American

He cited exorbitant tax rates

and constantly changing regu-

lations as some of the major

roadblocks to greater American

investment, issues which are on

■ Talks With British Leader

end with Prime Minister John

Commonwealth of Indepen-

dent States and Queen Eliza-

beth II's visit to Moscow next

month, Agence France-Presse

Mr. Yeltsin spent the week-

the summit meeting agenda.

Republicans Pine for a Sign From Powell

WASHINGTON - His peacemaking exploits in Haiti have reminded Republicans that Colin Powell is a hot politi-

To tell the truth, they needed no reminding. They can read the polls. Not that they expect an early statement of interest in the 1996 campaign from the retired general. What they long for, what they think they deserve, is some sign, however encoded, that he actually is a Republican. General Powell refuses to give it to them.

George Bush, his former commander in chief, his colleague in the successful prosecution of the war in the Gulf, the man he served as chairman of the Joint Chiefs of Staff, asked him. No answer. Former Senator Paul Laxalt of Nevada, whom he has known well since the Reagan era, asked him, too. Again there was no answer.

He has made two contributions of \$1,000 in the fierce Senate campaign in Virginia, but there is no clue there, either. He gave only to the two independents; J. Marshall Coleman, who lives in General Powell's neighborhood, and former Governor L. Douglas Wilder, who has since withdrawn.

"People ask me, 'What about Powell?' " said Charles Black.

a Republican campaign consultant. "Great idea, I tell them, but I have a question, too: 'Do you have any evidence that he belongs to either party?' "

The widespread assumption in Washington that General Powell is a Republican stems from his associations with Republican presidents and the vague conservatism of his public statements, such as his emphasis on family values. In a speech last week in Ashland, Ohio, he called Mr. Bush "my beloved friend" and termed Ronald Reagan "a genius."

But there are almost as many reasons to assume the 57year-old general is a Democrat. As a black man, he is presumed to admire the Democrats' record on civil rights, and he has close though less well-known links to President Bill

Some hopeful Democrats even mention him as a possible secretary of state in the seemingly endless speculation about the departure of Warren M. Christopher.

Tamer Ted Kennedy Faces a Tough Race

BOSTON - An exuberant Edward M. Kennedy was on the campaign trail, telling the crowd about the new woman at

"I want you to meet the love of my life - Victoria Reggie Kennedy!" bellowed the 62-year-old senior senator from Massachusetts, whose penchant for partying in the decade between his divorce from Joan Bennett Kennedy and his remarriage two years ago has been lampooned on late-night

Then, standing on a picnic bench, he leaned over and kissed his wife. The crowd roared. There were approving nurmurs about Mrs. Kennedy's youth — she is 40 — her dark-haired good looks, her megawatt smile.

Mr. Kennedy is facing what may be his most difficult Senate race in 32 years — recent polls show him in a virtual dead heat with Mitt Romney, 47, a Republican millionaire. Susan Stuart, a beautician, declared: "She's brought him right down to earth. Finally he said, 'This is what it's all about.' I'm a Republican, but I'm going to have to vote for

Quote/Unquote

Kevin Chandler, a spokesman for the Minnesota Democratic Senate nominee, Ann Wynia, as President Clinton campaigned for her over the weekend: "I doubt he's much of a help, nor does he do any harm, but he helps raise money and that's what we need."

AMERICAN TOPICS

When Parents Don't Show, Baby Sitter Stays

When a Pittsburgh couple failed to return home to their four children, a 14-year-old baby sitter organized her friends into shifts. The girls didn't tell anyone until their money ran out after two weeks.

The police praised Angela Morris and her friends Saturday for caring for the children. Bonnie Railing, 28, and James Fignar, 37, were being sought on charges of child endangerment. Their children, ages 2, 3, 9 and 10, were placed in foster

Angela had been hired to baby-sit while the couple went to New Jersey because Mr. Fignar had found a job installing tile there. She was to be paid \$75 for three days of care.

But the couple didn't come home. Angela skipped school

for a few days. Then she called an emergency meeting of her friends at a pizza parlor and organized a round-the-clock network to dress, feed and supervise the children.

The absent couple telephoned Angela three times in the second week, each time saying they would be back later that day, the police said. Angela said she and her friends finally told their parents

about the children because they ran out of money for food. "I really love those kids and didn't want them split up in foster homes," Angela said. "I feel relieved that it's all over, but I feel like crying, too."

Short Takes

It's not easy getting a parking ticket in Lansing, Michigan, these days. The state capital ran out of tickets and a fresh batch is not expected for two to three weeks. Meter maids are using old tickets, writing the new rates thereon, scratching out the old address of the parking violations bureau and writing in the new one. The old tickets cannot be fed into a computer but must be processed by hand. Mayor David Hollister was not amused. "We need to have more long-term planning," he

The New York publishing house Charles Scribner's Sons has been calling itself just Scribner's in recent years. But people were just as likely to misplace the apostrophe and call it Scribners. A spokeswoman said, "We finally decided to make it just plain 'Scribner.'"

Letters were originally scrambled on typewriter keyboards to keep typists from going too fast and jamming the keys. Keys can't be jammed on the new electric and electronic typewriters, but efforts to junk the so-called QWERTY system, named for the first six letters of the top line of the keyboard, have come to nought. The New York Times says: "The explanation seems to be simple inertia: If 99.44 percent of touch typists learn the QWERTY system they encounter on 99.44 percent of all machines, 99 percent of them don't want to learn a second system. The wide use of the computer keyboard has apparently only helped maintain the inertia."

The U.S. Postal Service has issued a stamp honoring the bines guitarist Robert Johnson. The artist who designed the stamp from a photograph of Mr. Johnson painted out the cigarette dangling from his mouth. An advisory committee had recommended the deletion "because they didn't want the stamps to be perceived as promoting cigarettes," a postal service spokeswoman said. But a spokesman for the National Smokers Alliance complained the decision was "an affront to the more than 50 million Americans who choose to smoke."

International Herald Tribune

Jury Phase Simpson

Angeles courtroom to begin the process of picking the 12 jurors who will decide Mr. Simpson's vest abroad.

Mr. Simpson, 47. is charged lower tarifts and to that seem with the June 12 slayings of his ger commercial legislation to little livestment. And to bright-Simpson, 35, and a friend, Ronald L. Goldman, 25. who were found stabbed to death outside her Brentwood town house. He

"fabricated" news reports, Judge Lance A. Ito of Superior Court said Friday he would convene a special hearing this week on whether to bar one local television station, KNBC.

cution, KNBC stood firmly behind the story that angered the judge — an anonymous report that DNA tests of blood found on socks in Simpson's mansion had tested positive for his former wife's blood.

Legal experts said that while Judge Ito, who has already barred TV coverage of jury selection, has the power to make good on his threat, his probable intention was to prod news organizations into acting with

greater restraint. Given the crush of pretrial publicity, legal scholars say jury selection will take up to a

Opening for

more than 100 days after his former wife was stabbed to death, O.J. Simpson was to go on trial Monday in what has sector investment."

become one of the most highly publicized murder cases in U.S. history. Prosecutors and defense attorneys will face off in a Los vate Investment Corp.. which

false and prejudicial news reports.

has pleaded "absolutely 100 percent not guilty."

Both sides have been accused of trying the former football star in the press, using a steady flow of leaks to taint the views of prospective jurors.

Infuriated by what he called

Despite a denial by the prosebut was later lost in fog.

of drug use.

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Spain	Ptes	48,000	34	26,500	14,500
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Sartzerland	SFr	610	44	335	185
Rest of Europe, ex CEI	\$	485		265	145
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North Korea Warns U.S. on Maneuvers But Stays at Talks

GENEVA — United States and North Korea held another round of talks Sunday on Pyongyang's nuclear activities despite threats from North Korea to withdraw because of U.S. naval exercises off its shores.

Officials from the two nations met for a third day of negotiations in Geneva, hours after North Korea's Commu-

Defying His King, **Buthelezi** Holds 2d Rally for Zulus

KWAMASHU, South Africa -South Africa's top Zulu politician, Chief Mangosuthu Buthelezi, defied his king's ban on Shaka Day celebrations Sunday to address a second rally marking the birth of their Zulu na-

But the rally in this battleweary black township, like one addressed by Chief Buthelezi on Saturday in the rural town of Stanger, went off peacefully despite widespread fears of factional violence.

Glossing over the fact that King Goodwill Zwelithini had canceled this year's festivities commemorating the 19th-century founder of the Zulu nation, Chief Buthelezi told 15,000 supporters he would fight to enshrine the Zulu monarchy in South Africa's post-apartheid

The king canceled the celebrations, saying he feared for his life after supporters of Chief Buthelezi's Inkatha Freedom Party stormed the royal residence during a visit by Mr. Mandela, the leader of the rival African National Congress.

nist government denounced the United States for what it called "undisguised military provoca-

A North Korean official said that the talks were continuing normally but that the Pyong-yang delegation told the Americans at the start of the session that it was unhappy about the naval exercises.

"The delegation expressed its opposition to the maneuvers because talks and military pressure do not go together," the official said.

the North Koreans would walk out of the discussions.

The two countries began the current round of meetings pledging to work to reach an accord on North Korea's nuclear power program.

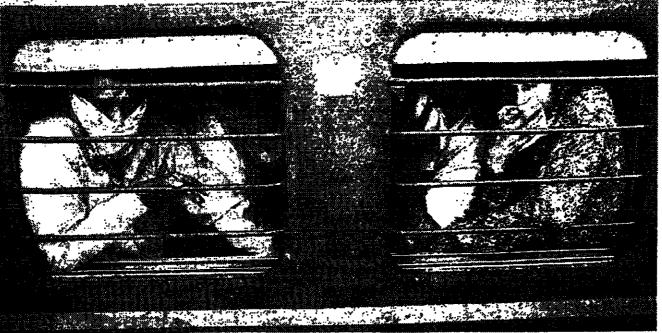
But both sides indicated in briefings Saturday that there were several hurdles to be cleared before they could agree on a final document.

A North Korean Foreign Ministry spokesman said the deployment of a U.S. naval force in the Sea of Japan could wreck the negotiations and force Pyongyang to end its freeze on most of its nuclear power program.

"We have no intention to hold talks exposed to military threats," the spokesman said in an official Korean Central News Agency dispatch moni-tored in Tokyo.

Diplomats said such language was to be expected because a U.S. admiral had said the naval presence could be compared to pressure put on Haiti's military leaders to step

Sunday's first meeting of technical experts adjourned af-



Diplomatic sources close to
the talks said they doubted that
Passengers covering their faces Sunday as their train passed through Surat, site of the pneumonic plague outbreak.

Pneumonic Plague Under Control In Gujarat Area, New Delhi Asserts

ties had fallen dramatically.

hospital as a quarantined facili-

ty for 407 suspected plague pa-

100 victims who left the clinic

"No uncured people will now leave the hospital," Mr. Dayal

said, appealing to the hundreds

of thousands of people who

have fled Surat to return home.

"This fear psychosis has to be

Some 400,000 people have

without authorization.

contained." he said.

SURAT, India — The Indian government said Sunday that an outbreak of pneumonic plague in the western city of Surat was under control and it

appealed to residents to return. But a health alert remained in force in seven of India's 25 states and in New Delhi as authorities moved to prevent the disease from spreading beyond Gujarat state.

The government said it had ample medicine to handle the epidemic, and dismissed demands that it seal off Surat or deploy the army to stem an exodus as "neither feasible nor ad-

"I can now say the situation in Surat is under control," Health Secretary M. S. Dayal said at a press conference in New Delhi.

Municipal officials here echoed his assertion, saying the outbreak of plague, which has

struck in India for the first time fled this industrial city of 2 million, triggering fears that some of them could be carrying the in 28 years, had been checked. The Surat chief administrator, Kundan Lal, said that alpneumonic plague germs.

though some new cases were An alert was in force in the trickling into the state-run Civil states of Andhra Pradesh, Kar-Hospital, the number of fatalinataka, Maharashtra, Orissa, Rajasthan, Uttar Pradesh and The Indian government has West Bengal and the Indian put the plague death toll at 44 capital as fleeing Surat resibut doctors and residents here dents arrived. say several dozen more may

Trains from Gujarat, where New Delhi on Sunday asked Surat to set aside a 750-bed city the epidemic has spread to a 150 kilometer (90 mile) radius around Surat, are being fumigated and travelers given antitients and ordered a hunt for

> Preventive steps have been taken in Bombay, some 270 kilometers (170 miles) south of Surat, amid reports of panicbuying of antibiotics.

> In Surat, people are walking on the streets with noses and mouths covered with handker-

U.S. on Alert For the Plague

New York Times Service NEW YORK - As part of an effort to prevent the spread of plague, federal health officials plan to in-crease surveillance at airports in the United States to identify any cases among passengers coming from in-

fected areas of India. Travelers will not be prevented from entering the United States, even if they are ill, but officials are working out plans on where to hospitalize such people if the need arises.

Cards will be given to travelers from the infected areas to alert them to call a doctor if they develop a fever or become ill, said Dr. Duane J. Gubler, a federal expert on plague. He emphasized that plague is easily treated with antibiotics if the infection is detected

Two UN Agencies **At Odds on Report** Of Rwanda Killing

KIGALI, Rwanda - Two United Nations agencies were at loggerheads on Sunday over a report by the UN refugee agency that Tutsi soldiers of the new Rwandan government were systematically killing

The UN Rwanda Emergency Office, which is coordinating UN operations in the central African country, said the report lacked evidence and was based

The report, by the office of the UN High Commissioner for Refugees, "gave no physical or forensic evidence of its claims," a UN Emergency Office spokesman said.

"We certainly want to support this government, not undermine it with uninvestigated rumors," the spokesman said. These are sensitive allegations made without proof."

The office of the UN High Commissioner for Refugees said in a report issued Friday in Geneva that a consultant it hired had found a "consistent pattern" showing that Rwanda Patriotic Front soldiers, who are mostly Tutsi, had harassed, intimidated and killed members of the majority Hutu tribe.

The Front came to power in July after a three-month civil war during which hundreds of thousands of Tutsi were massacred by the Hutu-dominated government army and militia.

The High Commissioner for Refugees said Sunday that it stood by its report.

■ Peacekeepers' Chaos

BOOKS

For seven minutes — the length of their visit to the Mugunga Refugee Camp — the

Japanese defense minister and his Zairian counterpart turned tranquility to chaos, The Associated Press reported from Goma, Zaire.

Tokuichiro Tamazawa flew to Goma to get a firsthand look at the start of the first ever deployment of Japanese troops since World War II under Japanese command - and to see the camps where I 2 million Rwandan refugees are living.

What he got was a fleeting glimpse of the Mugunga camp, about 20 kilometers from the Rwandan frontier, where defeated Hutu soldiers live side-by-side with civilians. But that seemed enough to satisfy him.

"The life of refugees is peaceful, calm and stable," Mr. Ta-mazawa said after touring the

The situation was anything but peaceful when the motorcade suddenly stopped in the middle of the road bordering the camp, blocking traffic in both directions.

Dozens of Zairian soldiers spilled out of their vehicles, waving rifles at the few refugees who dared to try to cross the road. Japanese journalists and cameramen sprinted down the road to catch up to the two ministers.

The bewildered refugees. some carrying firewood and water containers on their heads, crowded together trying to figure out what was happening. Who is that man? Is he Korean, Japanese or Chinese?" one refugee asked.

Seven minutes after they arrived, the ministers were on the road back to Goma, leaving the refugees still wondering who they were, and why they had

Bosnian Serbs Press Threats Against UN

SARAJEVO, Bosnia-Herze-

Nations forces on Sunday in response to a NATO air strike govina - Bosnian Serbs and the imposition of tighter stepped up their campaign of sanctions by the Security Counintimidation against United cil.

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The commander of the Bosnian Serbian Army, General Ratko Mladic, in a veiled threat to the UN peacekeeping force. said he could not take responsi-bility for the safety of UN oper-

ations on his territory.

The main UN relief agency said stocks of food in Sarajevo, where Serbian action has cut off aid convoys and forced the UN to suspend its air bridge, would run out in two weeks.

General Mladic's warning, in via, General Bertrand de Lastrike on a Bosnian Serbian said. tank last Thursday.

and aid convoys, has forced the closure of Sarajevo airport and prevented UN troops from trying to check that Serbs had removed banned guns from a heavy weapons exclusion zona around the city. ed to ease sanctions on Yugo-

the United Nations, the Serbs have rescinded permission for UN helicopter flights over their soil and warned that they could not guarantee the safety of flights to Sarajevo airport, UN spokesmen said

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PARIS

In his letter, General Mladic said the air raid had destroyed private houses and damaged a school. The United Nations said an unoccupied Serbian tank was hit, in what it described as an appropriate re-

wounded two of its peacekeep-General Mladic said the United Nations should not plan any operations on the territory of the self-styled Bosnian Serbi-

The Security Council has vot-

slavia for 100 days in response

to a pledge by the president of

Serbia to support a peace plan

for Bosnia-Herzegovina, halt

the shipment of war supplies to

the Bosnian Serbs and accept

civilian monitoring of the Serbi-

At the same time, the council

approved two additional reso-

lutions intended to punish the

Bosnian Serbs for continuing to

carry out a "persistent and sys-

tematic campaign of terror"

while interfering with UN relief

and peacekeeping operations. Financial and commercial

activity as well as all political

talks with Bosnian Serbs would

be frozen until they agreed to a

peace accord reached on July 6

and backed by Russia, Europe

The Security Council voted, 11 to 2, with 2 abstentions, on

the resolution easing sanctions

on the Yugoslav federation, made up of Serbia and Monte-

negro. Approval of the resolu-

tion was unexpected because

there have been reports of war

material being ferried into Bos-

nian Serbian territory from Ser-

bia, in some cases by helicopter.

and the United States.

an-Bosnian border.

a letter to the UN military com- an republic until it had made mander in the former Yugosla- clear it was a neutral force. Bosnian Serbs restored gas presle, was the latest in a series supplies to Sarajevo on Sunday of threats after the North At- more than a week after shutting lantic Treaty Organization air them off, a UN spokesman Electricity and water supplies

The Bosnian Serbian Army, to the mostly Muslim city rebesides halting UN military mained cut off, he said. **■** UN Moves on Sanctions York Times reported earlier from the United Nations in New

In a further move to pressure

ANDERSONVILLE: The Last Depot By William Marvel. 337 pages.

Reviewed by Jonathan Yardley sponse to Serbian attacks that

Barbara Crossette of The New

been the case at all. Surprisingly, William Marvel's "Andersonville: The Last Depot" appears to be the first history of the prison to take a genuinely objective approach to the question of how and to what ends Confederate authorities agenda in defense of the Rebel

measure as a direct conse- but this was in spite of, rather

Pat Laird, special educa-

tional needs coordinator at the

Charlottenburg School in Ber-

lin, is reading "Paddy Clarke Ha Ha Ha" by Roddy Doyle.

tame compared to the terrors

and thrills experienced in this

book. But it manages to strike a

chord with childhood memories

and I wonder whether today's

(Michael Kallenbach, IHT)

Japan (DC) (English)

children have enough freedom.

"My own sons' lives seem very

\$29.95. University of North Car-

THE image of the Confeder-1 ate prison at Andersonville in southwestern Georgia has been fixed in the public mind by two influences: the post-Civil War trial and hanging of its commandant, Henry Wirz, on charges of war crimes, and the publication four decades ago of "Andersonville," a hugely popular novel by MacKinlay Kantor. Both the trial and the novel depicted the prison not merely as hell on Earth, which in fact it seems to have been, but also as hell deliberately created by Wirz and his collaborators for the extermination of Union soldiers, which seems not to have

on the Civil War have been enthusiastically received.

quence of Union policy. Until mid-1863, the combatants had maintained an "exchange cartel" under which "both sides had regularly paroled all pris-oners and released them, pending exchange, and once that formal accounting had taken place the men were free to fight again." But in 1863 the Union withdrew from the cartel. The ostensible reason was the Confederate refusal to exchange black Union soldiers, but the deeper explanation appears to have been a reluctance on the part of Lincoln and his generals to prolong the war (and atten- filthy. dant Union casualties) by free-

ranks of the Confederacy. The result was that Rebel prisons rapidly overflowed, especially in Virginia: the Confederacy concluded that it prison in some isolated but productive region, somewhere near a railroad, and preferably in a warmer climate." So far as Marvel has been able to determine. the chief motive of the Confederacy was not to exterminate Yankee prisoners but to meet at least minimal humanitarian ob-

ligations to them. Instead it sent them to Anestablished and operated the dersonville. It sent them in prison. Marvel's own objectiv- great numbers before the prison ity seems unimpeachable; he is was ready. From the hour he resident of New Hampshire assumed command of the priswho presumably has no hidden on. Wirz fought a losing battle against problems of sanitation. cause, and his previous books hospitalization and rationing. To be sure, the mortality rate of the 41,000 men whose misfor-Andersonville was estab- tune it was to be sent to Anderlished, Marvel writes, in large sonville was around 35 percent,

than as a result of, Wirz's policies and labors.

This is in no way to minimize the horror that was Andersonville. Indeed "It's horrible" was all that an early prisoner had in him to enter in his diary upon first entering the prison, and in the ensuing months scarcely anything improved, because whatever gains were made were immediately canceled out by the ever-increasing prison population. The stench of the place was unbearable to those uninured to it, trash was everywhere. the hospital was mobbed and

ing prisoners to return to the been celebrated for cleanliness after Andersonville went out of or charity. There is little reason business, passions still run so to believe that Andersonville high that in some quarters he was significantly worse than its will have no chance of a fair counterparts in the North, only hearing. that its statistics were more needed to build "a stockade shocking because its numbers were so much larger. In quoting staff of The Washington Post.

Garry Wills's observation that only the winners decide what were war crimes," Marvel makes the obvious but necessary point that in the trial of Wirz, as in the trials at Nuremburg, the victors arrogated to themselves the power to impose versions of justice that would have been quite different had they been on the losing side. Wirz, an imperfect man, went to the gallows for crimes he did not commit.

Marvel makes a persuasive if not irrefutable case for this interpretation, and he presents it in a fluid narrative. The pity is more th

Jonathan Yardley is on the

BRIDGE

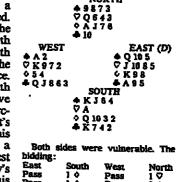
By Alan Truscott ON the diagramed deal South reached an optimistic four-spade contract when her partner jumped to three spades on the second round

with a hand on which a less ebullient player would bid two. East took to opening lead and led a heart to the ace fol-

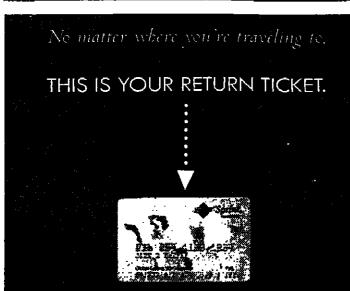
club ace and the diamond king, and decided not to criticize her he could not have the A-Q of spades since he had failed to open the bidding. East led a second heart and South ruffed. She ruffed a club and led the spade nine. East covered with the ten, an error, as South would have played low. The jack was played, forcing the ace. This was the moment of truth

for West. He should have played the king of hearts, forcing a ruff and promoting East's queen as the setting trick. This was the only real chance for a fourth defensive trick, but West feared to establish dummy's heart queen. He returned his remaining trump, won in dummy when East refused to cover with the queen.

Luckily for South, East held two more diamonds and there were two entries to the closed hand. South crossed to the diamond ten, ruffed a club with dummy's last trump, and led another low diamond anxiously. When East had to follow. South won with the queen, cashed the spade king, and had lowed by a diamond to the jack the club king and the diamond ace for the last two tricks. She Once East had produced the had made an unlikely contract, partner's three-spade bid.



West led the club queen.





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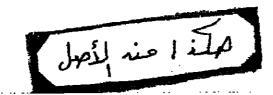
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Agencies Haiti Could Get \$550 Million The Aid Is Contingent on Aristide's Return By Alan Friedman International Herald Tribune Haiti is likely to Although Father Aristide's advisers say they believe as much as \$770 million may be meeded over the next year or so, in the balance of package was expensed of the covers and package was expensed to the covers and the co

million in huancias assurant assurant united States, the World Bank and other international donors in the next 12 to 15 months, American and World Bank officials said Sunday.

nonce the Reverend Jean-Bertrand Austried tide, is returned to power and tide. The aid will only be available sent to Haiti to make a detailed study, the officials said.

Lewis Preston, president of the World Bank, disclosed in an interview that a special consultative group had met in August and concluded that \$550 million was the amount Haiti

The group, which met in auticipation of the eventual restoration of Father Aristide's government of the contraction of the cont from the U.S. government's velopment, the World Bank, under the International Monetary Fund, the International Development Bank and aides to Father

The largest component of the \$550 million of expected loans interest-free credits for projects and grants was expected to be already approved by its Interabout \$200 million from the national Development Associa-Clinton administration, U.S. tion. Mr. Preston said World officials said. The remaining Bank officials would be sent to \$350 million will come from the Haiti as soon as Father Aristide World Bank, the IMF, the In- returned to power in order to ter-American Development review the projects and then Bank and individual countries. disburse the funds.

Continued from Page 1

winning support for sending troops to Haiti.

some people that our interests are at stake

there," he said, though he stressed that a

growing number of people see it as impor-

tant to support democracy throughout the

that we find intolerable everywhere but are

unconscionable on our doorstep," he said.

church the violence in Cap-Haitien. But

the chairman of the Joint Chiefs of Staff, General John M. Shalikashvili, said that

the Haitian military leader, Lieutenant

General Raoul Cédras, had been flown

there Sunday and that the U.S. side was

making it "abundantly clear" what the

consequences would be if there were fur-

They now know, he said in an interview

with CBS, "what the cost to the Haitians is

Other officials also sought to remind the

Continued from Page 1 in to the demands of the auditors to pay a sum of money," last week, other figures to have which Italian newspaper re-

paraded before the magistrate ports put at around \$66,000.

outlets across the globe," La er of Prime Minister Silvio Ber-

American public that no military opera-

for picking a fight with the Marines."

ther threats to U.S. troops.

would have difficulties."

include Kryzia — whose real

name is Mariuccia Mandelli -

Gianmatia Buccellati and San-

to Versace, the brother of

Of all of them, though, Mr.

"Giorgio Armani is the single

most famous designer of ready-

to-wear clothes sold at 2,000

Repubblica newspaper said.

They call him the king."

said the Corriere Della Sera,

"the quintessence of elegance."

Yet, according to Mr. Armani's lawyer, Oreste Domin-

ioni, the designer "had to give

Armani's name seemed likely to

strike the loudest chord.

Gianni Versace.

"It helps to end human rights violations

Mr. Clinton did not mention at the

"It has been so hard for me to convince

advisers say they believe as would come from the Inter-much as \$770 million may be American Development Bank. Mr. Preston noted that "the aid package was expected to sum of \$550 million is a pretty come from Japan and other alsignificant amount in proportion to Haiti's population of 6.7 million."

He said the first step would be to obtain a total of about \$20 million in aid from the United States and other wealthy donor countries to help Haiti pay off its arrears on outstanding debt owed to the World Bank, the IMF and the Inter-American Development Bank, Haiti has fallen behind on repayment of its debts to these institutions since the 1991 coup that forced

Father Aristide from power. Mr. Preston said that once the arrears were settled, Haiti would become eligible for new funds, the first of which would probably be a \$25 million "rehabilitation loan" from the World Bank to finance basic imports of food, medical supplies, spare parts and other goods that have been held back because of the embargo on Hai-

The World Bank is prepared to move quickly to provide Hai-ti with about \$100 million of

A further \$130 million of aid The balance of the overall Haiti lies of the United States.

Jan Piercy, the U.S. executive director for the World Bank. praised the bank for having worked "very closely and very effectively with U.S. bilateral assistance."

Ms. Piercy said in an interview that providing funds for Haiti was "the really critical requirement for any hope of stability in that country.

Ms. Piercy also said she hoped the World Bank would become the coordinator and 'lead player" in helping to rebuild the Haitian economy in the same way that the bank has played a central role in arranging aid to the newly autonomous Palestinian authorities in Jericho and the Gaza Strip. The most immediate aid to

Haiti, which is the poorest country in the region, is in the form of more than one million meals a day being provided by the Agency for International Development. The U.S. agency is also expected to start hiring thousands of Haitians for public works projects.

The Clinton administration is also expected to unfreeze Haiti's U.S.-based assets, although for the time being it will keep frozen those belonging to the military officials who led the coup against Father Aristide's government.



General Cédras, rear, talking Sunday with General Shelton.

FIGHT: New Debate Over Risk and Role for Troops Follows First Combat HAITI: 10 Die in Fight

Continued from Page 1

General Cedras later flew to Cap-Haītien with top U.S. officials aboard an American mili-

tary helicopter. The shootout was ignited when a Haitian military policeman raised a Uzi automatic weapon as he was taunted by demonstrators, Colonel Jones

Colonel Jones gave the first official account of the incident, which he said started during a demonstration Saturday in which an anti-Cedras crowd began taunting men inside a police station. The Haitian military police-

man became increasingly agitated and began to raise his submachine gun, Colonel Jones said. At that point the Marines fired, he said. Colonel Jones said the fire

police station and from the crowd. He added that it was impossi-

ble to say who fired the first shot but that Marines are taught to act when they see a language and imposed their

"I hope our lieutenant fired

first," he said. The gunbattle followed an escalation in tension between Marines and Haitian security forces. Marine patrols had been increased and units were given more latitude to take action against Haitian forces followagainst Haitian forces following intelligence reports that "atmaps used by South Korea's Transportation Ministry call it taches" were planning to attack

Earlier Saturday in Port-autary leadership.

The incident came after thou-

Washington Post Service guage spoken by the PORT-AU-PRINCE. Haiti jority of Haitians.

With More Violence Feared,

Uncertainties Mount for U.S.

— The involvement of U.S. sol-Haitians dead has renewed could be virtually no one anydoubts and uncertainties about the ill-defined nature of what not at least hear the message,"

By Douglas Farah

should do in Haiti.

gan the occupation of Haiti.

could get nasty now."

At the heart of the American

troops should play in the deeply

polarized society, where the po-lice and the army, allied with a

forms for decades and have

ruled with brutality and guns.

In response, many in this na-

tion are likely to seek revenge

for the years of abuse. The

question is. What should the

United States do about it now

that its forces are on the

clearly defined, and the rules of

engagement keep being rede-

and police are furious, and what

Aristide supporters, and what

Privately, American officials

mensely popular here and re-

tains great moral authority, has

main calm and refrain from

taking vengeance. Although Fa-

ther Aristide has assured Amer-

he has not broadcast the mes-

will happen then?"

"Our mission is still not

ground?

Haitien are by far the most seri-ous, but not the only incidents, the fact that the United States that have raised tensions here. one week after U.S. troops be-

NEWS ANALYSIS

The stated goal of the mishas continued to allow the de sion is to prepare the way for the military leaders to leave and facto government, not recognized by any member of the for the ousted, democratically United Nations, to continue to elected president, the Reverend function and broadcast strong-Jean-Bertrand Aristide, to rely anti-American messages on national television and radio. "We bought into a lot on this

"There is still some relucthing, more than many people tance to take over those facilirealized, although they were ties and shut that stuff off," an warned," an American official said. "This is not fooling American official said, "I don't understand why we tolerate around time anymore. Things people going directly against U.S. interests once we have U.S. The streets of the capital forces here."

were calm on Sunday, but the There have been numerous U.S. troops visibly increased their presence, patrolling the main arteries of the city. other incidents where American officials have had to intervene that did not result in deaths. An army spokesman, Colonel dilemma is what role U.S.

gry crowd.

sage to Haiti in Creole, the lan- ters (60 miles) north of the captguage spoken by the huge ma- tal, a group of about 10 (00) Aristide supporters gathered "He should be repeating the outside the an army headquardiers in a firefight that left 10 message so often that there ters. He said two men, armed with rifles, "displayed hostile where in the country that did intent" toward U.S. soldiers and were disarmed. After the American forces can and said one Haitian analyst who disarming he said, the crowd supports Father Aristide's re- surged forward and attacked The shoot-out and subset turn. "The broadcast should the two, who ended up being

quent looting that took place start, and they should start yes-Saturday and Sunday in Cap terday." rescued by American troops and escorted from the area. In another incident, an anery group of civilians in a slum area east of the capital attacked a prominent pro-army man accused of brutality. The crowd dragged him to an outdoor latrine and threw him in. Covered with excrement, he was hauled out by the police, who had to use tear gas to disperse the un-

> As the crowds grow more and more emboldened, especially without an appeal by Father Aristide to remain caim, many American officials fear the next victims of the violence will be protesters seeking revenge, not armed soldiers or policemen like in Cap-Haitien.

One official said, "it will be difficult to explain to the American people why we are showing at the people we are supposed to defend, or why we are Barry Willey, said that in the defending the people we are city of Gonaives, 100 kilome-here to expelt."

tiny minority, have stymied democratic and economic re-

Continued from Page 1

from 26 percent in 1990. The environmentalist Alliance 90-Greens — a potential national coalition partner for the Social Democrats — barely staved in Bavaria's Parliament, winning 6.3 percent of the vote.

Mr. Stoiber took office in May 1993 after Max Streibl resigned over an influence-pedfined," one American official dling scandal. "Now the Haitian Army Sunday's showing was the worst in 20 years for the Chrisare they likely to do, confront us directly? Not likely. They will renew their efforts against

governed Bavaria for 32 years. Bavaria, with 11.8 million people, has a large farming population, thriving high-tech in-dustries and an abiding conser-

express their dismay that Fa-ther Aristide, who is still im-Mr. Stoiber is a fue of binding Germany too closely to the European Union, and his party not broadcast messages into Haiti asking his followers to rewas an early advocate of police surveillance of the reconstructed Communist Party in Eastern cratic Socialism. ican officials in Washington that there will be no retaliation.

vatism.

force in Eastern Germany, have house.

said they would support a Social Democrat-led coalition if they succeeded in gaining seats in the federal Parliament next month.

Such a possibility would depend on the Free Democrats' failing to return to Parhament and on a strong showing by the Alliance 90-Greens party.
(AP, Reuters)

■ Neo-Nazi Is Uprooted

A house in southern Denmark that had been bought for a leading German neo-Nazi was tian Social Union, which has abandoned Sunday, the day after some 2,000 demonstrators protested against his presence. The Associated Press reported from Copenhagen.

Policemen protected the inhabitants of the house while the two-story building, bought earlier this year by the head of Germany's banned Nationalist Front, Meinhof Schonborn, was being emptied.

Earlier, some 2,000 local in-Germany, the Party of Demo- habitants had demonstrated along with Danish and German The leaders of that party, a leftists near Mr. Schönborn's

tion of this sort can be risk-free. dissent without violence," he said. "They tions of impoverished Haitians would not have had a very violent history be turned on U.S. troops. Defense Secretary William J. Perry, who visited Haiti on Saturday, said Sunday that

"We fully expected difficulties, and the

incident we saw yesterday, I think, is just

typical of what we expected to see," he told

But the House minority whip, Newt

Gingrich, said the incident underscored

Haiti's similarity to Somalia. He said he

would press for a resolution this week

demanding U.S. withdrawal from Haiti

"at the most rapid possible speed."

all the things that can go wrong."

ter the loss of 44 American lives.

six coups in the last seven years.

"date certain" for U.S. withdrawal.

he had told U.S. troops that "they have to stand tall for that mission and that they

The payment was part of the

latest phase of Italy's long-run-

ning corruption scandal, in-

volving payments made by

businessmen to the govern-

ment's tax inspectors in return

widespread. In recent months a

host of business people, includ-

ing Paolo Berlusconi, the broth-

lusconi, have been caught up in

the inquiry.

Most of those implicated

have said they were forced to

That the spotlight of the in-

quiry has now turned to the in Milan.

pay by corrupt officials.

The practice was apparently

for favorable audits.

president, the Reverend Jean-Bertrand Aristide, to seek an immediate end to the

strike where they do.

istrates on the defensive.

ball, or whether barbers are giv-

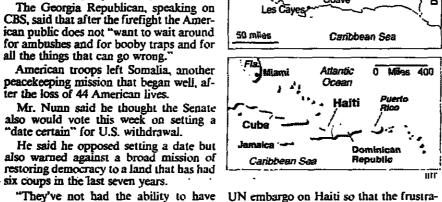
ing out proper receipts," said

Francesco Saverio Borrelli, the

have not had democracy."

ave not had democracy."

Later Sunday, Father Aristide said he
Mr. Nunn urged the deposed Haitian was asking the Security Council and indi-



Atlantic Ocean

Port-de-Paix Cap-Haitien

St-Marc & HAITI

⇒Gonaīves

vidual nations to remove some sanctions.

ITALY: Fashion Industry Sees a Conspiracy in Timing of New Inquiry

fashion designers — custodians "We don't move that way," of some national pride — he said in a published interview. seems, though, to have produced some questions about inputs. If our curiosity leads the how and why the magistrates inquiry beyond a single episode, that's another matter. The "I'm very worried that people important thing is that we don't are going to use the probes as an set out to poke our noses into excuse to slam the industry and stop buying Italian," said Mr. Della Schiava at the National Chamber of Fashion.

Not everyone is convinced.

Not everyone is convinced, particularly about the timing of Such concerns seem to have out some of the Milanese magthe latest inquiries just before the models take to the runways "We don't just go and see what's happening in the world to win the hearts and orders of the 40,000 people who flock to of fashion, or the world of footMilan for the October shows.

"The investigations could have started a couple of weeks head of the investigative team later," said Mr. Daverio. "No one would have run away."

threat.

Marines, the Marines said.

Prince, Haitian soldiers fired tear gas and reportedly arrested several people at police headquarters as demonstrators demanded the ouster of the mili-

sands of Haitians roared approval of the U.S. intervention in a carnival-like demonstration.

SEA: Talks on Pollution Founder Over Stormy Waters the handsome Blue House. Foreign Ministry did not fore-

Continued from Page 1

own nomenclature, subjecting Koreans to appellation without representation.

in 1928, Japan petitioned the International Hydrographic Organization to make Sea of Japan the official name of the sea. Since then, that has been the accepted international term. Even the English-language the Sea of Japan.

But all Korean-language maps use East Sea. In a sense, South Korea's rejection of the Japanese name crystallizes decades of hostility and resentment between the two cultures.

For South Korean politicians, Japan-bashing remains a sure way to build support. President Kim Young Sam saw his ratings climb last fall when he (AP, Reuters, AFP) announced plans to demolish

A South Korean television reporter, Chon Yo Ok, hit bestseller lists here this year with a book titled "Japan is Nothing." which argues that Japan's cul-ture is "infantile." In Japan, meanwhile, an author using a Korean pseudonym has replied with a nonfiction book called "The Ugly Korean."

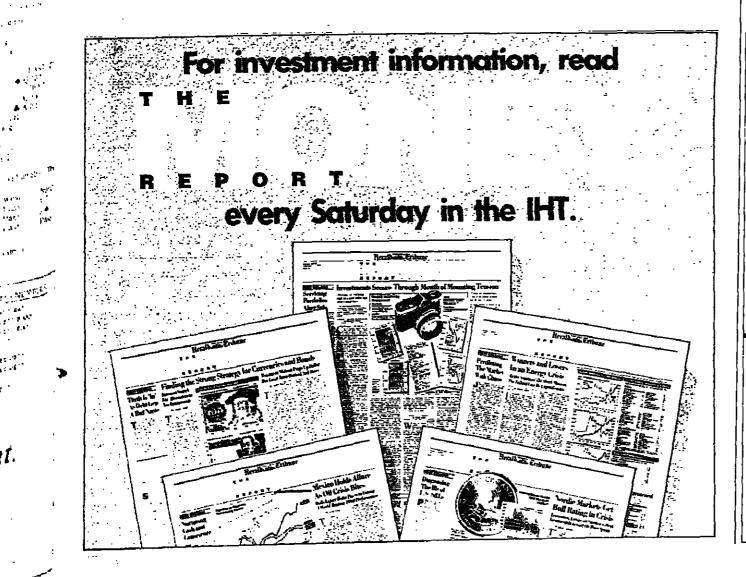
For all that, South Korea and Japan have normalized diplomatic relations, working together on international issues such as the North Korean nuclear threat. A key step toward better relations was Japan's formal apology last year for forcing Korean women to serve as sex slaves during World War II.

Given this warming trend, of-ficials here say, South Korea's

Seoul's equivalent of the White see any political problem when House. The problem: It had the four nations sat down to been built by the Japanese to house their colonial governor. Action Plan, an environmental Action Plan, an environmental protection effort proposed by the United Nations Environmental Program,

But the revelation that the document under discussion used the term Sea of Japan ignited a storm of criticism. "Humiliating," fumed one national magazine. "A major diplomatic blunder," agreed the newspaper Dong-A libo, "Have the South Korean negotiators forgotten the words of their own national

Evidently not, Suddenly, Korea's negotiators said they could not discuss the UN plan until all reference to Sea of Japan was removed. In the end, the four nations agreed to describe the affected waters only by their latitude and longitude.



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Rethinking Nuclear Arms

His prepared text said that, with the passing of Soviet power, nuclear weapons play a "greatly changed" role in American strategy. But in presenting the results of a major Clinton administration nuclear policy review in a speech last week, Defense Secretary of Defense William Perry got bolder and said the nuclear role is "dramatically reduced." It's so. The threat now centers on potential rogue bombs, not on real Soviet ones. The sense of civilizational and global endangerment is gone. Cold War nuclear diplomacy is only a memory. The army and Marine Corps have been shorn of these arms and

the navy and air force clipped way back. To us anyway, it is inconceivable that the United States would actually use or brandish the still very large total of 3,000plus weapons it intends to have on hand in a decade, according to a schedule of reductions planned by the Bush administration and now confirmed by President Bill Clinton. Certainly it is not possible to imagine that the United States plans to use the hundreds of weapons it means to keep in Europe. Nor is it conceivable that nuclear arms would be employed against conventional attack, a theoretical option the administration retains. But for an indefinite period, Mr. Perry made clear, nuclear weapons will remain a factor. diminished but undeniable, in American strategy. Essentially, the Clinton review embraces the Bush policy.

This is a disappointment to those who

feel that the times allow an ever fuller denuclearization of the American arsenal and of American thinking. At a time when the United States is pressing a global campaign to discourage other nations from acquiring or keeping nuclear weapons, for instance, it cannot help for Washington to be reaffirming the value

and continuity of its own nuclear arsenal. At the same time, however, the United States still has not merely the nuclear habit but the responsibilities of a global power. The administration has reasons of prudence not only to call on a lagging Russia to catch up to its earlier disarmament pledges but also to hedge against what Mr. Perry calls the "small but real" risk that Russia, currently with 25,000 nuclear weapons (against 15,000 in American hands), might again become hostile.

Meanwhile, the administration foresees further steps in arms control and disarmament. Whether there will be much of an emphasis on the further reduction of force levels and reinforcement of mutual deterrence in a "START-3" agreement may become clearer in the Clinton-Yeltsin summit. In any event, there definitely will be an emphasis on the new strategic mantra of "MAS," or Mutual Assured Safety: nonproliferation, controls on fissionable materials, safety and security of weapons ("loose nukes") and the like. This new agenda is urgent and laudable in its own right.

— THE WASHINGTON POST.

North's Divisive Talents

Oliver North has two talents rarely, if ever, combined in the same political candidate. He can squirt water through the gap in his front teeth and strike a target 10 feet away. He also has a rare gift for splitting a political party that normally tolerates almost anyone identified as a Republican. Mr. North is the Republican official sena-torial candidate in Virginia. He faces the Democratic incumbent, Charles Robb, and J. Marshall Coleman, another Republican who is running as an independent. But much of Republican firmament cannot abide Mr. North, including one former president, largely because he misled Congress about the frun-contra affair.

Ronald Reagan, who seldom ventures into intra-party politics, called Mr. North a liar for asserting that he had directed him to mislead Congress during the Iran-contra investigation. Rather than support the party's nominee. Senators John Warner of Virginia, John Danforth of Missouri and John Chafee of Rhode Island have come out for Mr. Coleman. Robert McFarlane, Mr. North's old boss at the National Security Council, said of him: "He lies to me, to the Congress, to the president. This is not somebody you want in public life."

Now along comes former President George Bush, with a positively chirpy note in which he offers to endorse Mr. North and help him in any way he can. No reservations from Mr. Bush.

Bob Dole, the Senate minority leader, is plainly conflicted, voting both "yes" and "no." First he described Mr. North as "a loose cannon" who had overstepped his authority when he helped divert arms to Iran to fund the contras in Nicaragua. Then, visions of a Senate majority dancing in his head, Mr. Dole set aside his con-tempt and campaigned for Mr. North. Never a good actor, he did so tepidly.

Ask the folks at Republican Central what all this means and they'll tell you that the Republican Party is "a big tent." Perhaps. But in the year of North, that tent is too small to accommodate both those who wish to consort with him and those who wish he had never appeared on the scene.

-THE NEW YORK TIMES.

An Immigration Disservice

The Immigration and Naturalization Service is an agency in disarray, serving neither its clients nor the taxpayers well. The Clinton administration is trying to make changes, starting with the basics of this is an agency that needs a radical makeover.

The dual mission of the INS is a big problem. It is a law enforcement agency charged with catching and deporting illegal aliens. It is also a service agency that helps foreigners who come to America legally become eligible for work and citizenship. As a recent New York Times series showed, the agency performs poorly. It leaves revenues uncollected. It allows illegal aliens with criminal records to move about the country with impunity. It thwarts the efforts of immigrants seeking basic information. It looks the other way when its own officials engage in corruption. Its inadequate computer systems fail to accurately record or adequately maintain and update data.

Though an arm of the Justice Department, the INS has long been treated like an orphan. During the 1980s particularly, the agency became a dumping

ground for political hacks. Immigration is considered such a losing issue that members of Congress do not want to serve on the committees that are supposed to supervise the agency.

to make some changes. Its new commissioner, Doris Meissner, has started to reorganize the agency to make field operations more accountable to headquarters. At the same time, she is giving career officials more responsibility while trying to strengthen border controls and deport more criminal aliens.

Congress has increased the agency's budget for the 1995 fiscal year, in hopes that it will use the money to reform itself. But rehabilitating the INS may take longer than public patience will allow. Several border states are suing the federal government, insisting that illegal aliens are draining their resources. At the same time, legal immigrants deserve fair and efficient treatment. It is time for an outside commission to take a hard look at the agency, with an eye toward separating its enforcement from its service functions.

- THE NEW YORK TIMES.

Other Comment

Tasks for Clinton and Yeltsin

Russia is becoming, if never quite a "normal" power, at least a more calculable one. So President Bill Clinton will want to dwell [at this week's summit] on those areas - stemming nuclear proliferation, for example - where Russia and America can now cooperate rather than compete. President Boris Yeltsin will be keen to do the same.

Frictions over Bosnia, and the "friendly" invasion of Haiti, make it harder for Mr. Clinton to take up another issue. Russia's bullying of its neighbors. Nonetheless he must do so. Russia has legitimate concerns about the security of its borders and the fate of the 25 million or so ethnic Russians who live

beyond them. But legitimate interests do not excuse illegitimate means - including force — that Russia has used to defend them. Having barged into his neighbor's affairs, Mr. Yeltsin claims to be looking for ways to settle local conflicts, not stir them up (let alone rebuild a Russian empire). In one place — the disputed territory of Nagorno-Karabakh - he could demonstrate these good intentions, but so far has not.

Thankfully, the time is past when rows between Russia and America shook the world - but getting policy toward Russia right still matters a great deal. If his recent performance is any guide, Mr. Clinton is anything but wellequipped for the task.

- The Economist (London).



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Herald Cribune U.S.-Russian Summitry: Oil and Gas Fields Loom Large

WASHINGTON — The issues of war and peace, and oil and gas, on the shores of the Caspian Sea loom large on the agenda that President Bill Clinton will discuss with President Boris Yeltsin at the White House on Tuesday. On no other issues are Russian-U.S. differences so clear-cut.

U.S. officials expect Mr. Yeltsin to respond positively to Mr. Clinton's proposals on voluntary nuclear weapons reductions. limiting security problems in Central Europe and improving the conditions for U.S. investment and trade with Russia.

But the United States has become openly suspicious of Moscow's meddling in the war between the former Soviet republics of Armenia and Azerbaijan. And Mr. Clinton will now be pressing Mr. Yeltsin not to interfere with the hopes of American companies to play a major role in turning the Caspian into an oil-producing region with the potential to be another Kuwait.

The oil and gas reserves add allure to the Transcaucasia region, long a strategic prize for outside powers. Russia and Tur-key, joined in the 19th century by Britain, have waged a political and military struggle for influence that was christened "the Great Game" because of the grand stakes, and tactics, involved.

"This has been a century-long game and now we are back in it," Sergei Karaganov.

By Jim Hoagland

head of a foreign policy advisory board appointed by Mr. Yeltsin, says of the developing contest between Russia and Turkey for allies and clients in the Central Asian area both powers neighbor,

The Caspian oil located in Azerbaijan, Turkmenistan and Kazakhstan, must be pumped out by pipeline to tankers for transport to Western markets. Deciding whether new pipelines go through Russia or Turkey, or perhaps even Iran, is likely to depend on politics as much as economics. That is what makes the Caspian oil question a proper matter for the summit meeting.

Azerbaijan, which has suffered heavy losses of men and territory in the lighting with Armenia over the disputed territory of Nagorno-Karabakh, signed contracts worth \$8 billion with a consortium of Western firms last Tuesday. The consortium, which includes Amoco, Pennzoil, Unocal and British Petroleum, will provide 80 percent of the financing.

But Russia immediately denounced the agreement, which does not specify the pipeline route. Mr. Karaganov, in Washington to help prepare Mr. Yeltsin's visit, stated flatly that there was "no chance that south" through Turkey. "Russia is interested that we control the pipeline."

This presents Mr. Clinton with a delicate mission in trying to bridge the gap between U.S. companies, a war-shattered Azerbaijan and a Russia that is still economically unstable. White House officials point to the presence of Russian energy minister at the contract signing and the fact that a Russian oil company has a 10 percent interest in the consortium as promising signs that Mr. Yeltsin can be talked into, or bargained

into, not opposing the deal now.

The White House formally does not take a position on where the pipeline should go. Informally, officials acknowledge they would rather see no deal than a deal that awarded the pipeline, the revenues it will generate and the control it will convey over the region's economic life to Iran.

Part of the reason of developing the Caspian oil reserves will be to develop an alternative to relying so heavily on oil from the Persian Gulf," said a White House official. "If Iran controls the pipeline, we haven't improved things at all."

There is no clear consensus in the administration whether U.S. interests are best served by supporting a pipeline through Russia, which is eager to maintain the economic links that tied the republics of the south to Moscow, or through

Turkey, a Washington ally in NATO. At this point, Mr. Clinton will have to walk a fine line as he attempts to coax Mr. Yeltsin into letting the Azerbaijan deal gofforward without promising U.S. support for Russia on the pipeline question. That would infuriate the Turks, and the influential U.S. porat ma

na History

THE TR

businessmen who work with Ankara. The president's task is also complicated by disagreement between Washington and Moscow over the war between Armenia, which Russia supports, and Azerbaijah, which is hoping that the oil deal will gain it U.S. and British sympathy and which has refused to host Russian troops on its soil.

Russia is encouraging Armenia, which is winning the war, to hold out for Russian peacekeeping forces rather than to accept peacekeeping units and observers that would report to the Conference on Security and Cooperation in Europe, as Washington wants. U.S. officials openly question Moscow's intentions in Azerbaijan and accase the Russians of prolonging the fighting.

America's political and economic inter-

ests come together in the Azerbaijan case in a way that demands presidential involvement. Mr. Clinton deserves recognition for the preparation he has devoted to this case and for putting the economics and politics of Azerbaijan on the summit agenda.

The Washington Post.

Plan Now for Yeltsin's Bitter Legacy

NEW YORK — Boris Yeltsin, Russia's first popularly elected president but unabashed admirer of Peter the Great, comes to Washington this week to visit his own most exalted enthusiast. If their previous summit meetings are any precedent, President Bill Clinton will again embrace "my friend Boris" and his claim to be the indispensable father of a "new democratic and civilized Russia."

Not many influential Russians see Mr. Yeltsin that way any longer, nor are future historians likely to do so. The "irreconcilable opposition," as ultranationalists and defiant Communists are called. still views him as a criminal agent of Western powers who plotted the breakup of the Soviet Union and are now plundering Russia's economy. But, more significantly, few-er and fewer Russian democrats, once Mr. Yeltsin's hopeful supporters, see him as one of their own. Most regard him as an instinctively authoritarian leader who has enabled the former Soviet ruling class to preserve its position. even to enrich and legalize it under the cover of "privatization."

Nor is Mr. Yeltsin's standing with ordinary Russians what it once was. In last December's elections for a new Parliament, the State Duma, various anti-government parties took about 85 percent of the vote, even though Mr. Yeltsin wrote the rules and controlled television. In recent presidential polls, he is preferred by no more than 20 percent of those surveyed. Not surprisingly, Russian newspapers have begun speculating about the "death agoiv of the Yeltsin regime."

It may be too early to write Mr. Yeltsin's political obituary. But already we can understand the dangerous consequences of his policies, particularly those in which the United States has been deeply involved. My view is that Mr. Yeltsin's legacy will not be the promised transition to a dem-

TONDON - With the an-

L nouncement of a cessation

of military activities by the

Irish Republican Army and the

commitment of their political

voice, Sinn Fein, to peaceful

and democratic means to reach

an agreement between the peo-

ple of Ireland that can earn the

allegiance of all our traditions,

we are now at the beginning of

objective of my dialogue with

Gerry Adams. Since five British

governments and 20,000 troops failed to stop the violence. I took the view that if the killing

of human beings on our streets could be ended by direct dia-

logue, then it was my duty to do so. I am naturally pleased that we have achieved this first ma-

jor step toward lasting stability.

next major challenge: to reach

agreement on how we share our

piece of earth together. The challenge is to find common

ground between two fundamen-

tally different mind-sets, the

largely in the Protestant popula-

tion of Northern Ireland, is akin

to that of the Afrikaner who

believes that, surrounded by

hostility that is real or apparent.

the only way to protect his peo-ple is to concentrate power in

their own hands to the exclusion

of all others. That approach is

not only doomed to encourage

widespread discrimination and

Nor does it do justice to the

unionist tradition. The union-

ists of Northern Ireland are

justly proud of their heritage

and their contribution to the

world. As many as 11 American

presidents came of their stock.

They number captains of indus-

try and colonial governors

among their great men. They see

themselves as a pragmatic.

hardheaded, straight-talking, skeptical, robust people and

conflict but is unsustainable.

The unionist mind-set, based

unionist and the nationalist.

Now we must move on to our

That was the clearly stated

a new era in Ireland.

By Stephen F. Cohen

ocratic, free-market system, or even a popular consensus for moving in that direction, but a bitterly divided nation.

Three traumatic policies have characterized Mr. Yeltsin's use of power and shaped Russia today. In December 1991, his sudden and surreptitious abolition of the Soviet Union shattered an exceptionally integrated economy while de-

priving 150 million Russians of the only nationhood they had known. In 1992, his attempt to impose a Western-style market economy on Russia by "shock therapy" took away the life savings of most peo-

Russian newspapers have begun speculating about the death agony of the Yeltsin regime.

ple. Largely as a result, while perhaps 5 percent to 8 percent of Russians have profited fabulously. industrial production has dropped up to 50 percent, at least half the country now lives in poverty or on the brink of it, and general health and life expectancy have declined so severely that even a pro-Yeltsin newspaper calls the situation an unfolding catastrophe."

His third decision, the unlawful overthrow of an elected Parliament and constitutional order in 1993, then dealt a heavy blow to popular democratic expectations initiated by President Mikhai Gorbachev in the late 1980s.

The political fallout from those excessive policies was predictable and has been confirmed by opinion polls and other sources. In response to Mr. Yeltsin's brand of extremism, "irreconcilable" views, including anti-Americanism and the charge that post-com-

A New Era for Ireland Opens at Last

By John Hume

there is much in their history to

But the negative impact of

their laager mentality has tend-

ed to dry up their creativity and

paralyze their political talents.

The time has come for them to

believe in themselves as their

own best guarantors in a future

shared with the rest of the peo-

ple of Ireland. They must realize

that because of their geography

and their numbers, the problem

cannot be solved without them.

Their true interest depends pre-

cisely on the exercise of their

traditional gifts of self-confi-dence and self-reliance. Let them

exercise those gifts now by engaging in the political process of dialogue and consensus building.

The nationalist mind-set has

traditionally relied less on the

discipline of its people and more

on its commitment to the territo-

ry of Ireland. "This is our land,

and you unionists are a minority

and you cannot stop us taking it

over" can fairly well sum it up. But Irish nationalism has grown

in its complexity, and it accepts

that unity is not a territorial ob-

jective but one that involves peo-

ple. It is people who have rights

and not territory. A divided pec-

ple can only be brought together

by agreement. If coercion en-

trenches those divisions, only di-

process, I have been strongly

inspired by both my European

experience and my contact with

the United States. The Europe-

an Union is the greatest testa-

ment to the resolution of con-

flict. After one of the bloodiest

conflicts in history, which left

35 million dead across our con-

tinent a mere 50 years ago, Eu-

ropeans are engaged in a level of

cooperation so intense it has

blurred the traditional bounds

of sovereignty. The political sys-

tem of the United States com-

In my whole approach to this

alogue can bridge them.

justify their view.

munist Russia is ruled by a "crim-inal state," have crept across the spectrum. Most Russians no longer believe in democratic, free-market or other Western-sponsored solutions; they look back on the breakup of the Soviet Union as a mistake or a conspiracy and want some kind of regrouping of former Soviet republics.

Fear and loathing are spreading like a cancer in this long tormented ethnically diverse country, where the question "What is to be done?" has too often been answered with "Who is guilty?" Millions of ordinary citizens loathe what has happened to their nation at home and abroad, and ask who "betrayed" them. Understandably, the ruling elite has begun to fear its own people. The escalating anxiety rises like a specter from recent developments reported in the Russian press.

Three are especially revealing Having broken his promise to hold a presidential election in 1994, Mr. Yeltsin has begun looking for ways to cancel the one now scheduled for 1996. Publicly, his associates are offering to do it in conjunction with the State Duma, which is also up for re-election soon, but privately they are exploring "harder" variants as well. Second, credible reports sug-

gest Mr. Yeltsin is suppressing evidence that the new authoritarian constitution he put to the country last December - the Clinton administration called it a "great democratic breakthrough" did not actually get the required 50 percent of eligible votes. If true, everything Mr.

1994 also has been unlawful. Third, a popular young general, Alexander Lebed, recently called for a new political leadership, dismissing Mr. Yeltsin as "a minus." When the president's few remaining military loyalists tried to remove General Lebed from his command, the general

mands the loyalty of citizens de-

spite the diversity of their ethnic

makeup and experiences. And

each U.S. citizen carries in the

small change in his or her pock-

et the maxim that holds the

country together: e pluribus

unum, from many we are one.

a process that seeks to give reali-

ty to this most profound truth.

We must create by agreement,

as was done in postwar Europe,

institutions that respect our di-

versity but allow us also to work

our substantial economic

ground together - and by spill-

ing our sweat and not our blood

to begin our healing process. If

that happens, a new Ireland will

evolve, and the model that

emerges may be very different

from the models of the past. It

will be based on agreement and

can earn the allegiance of peo-

agreement, we should also work

together to build our country

economically, concentrating on areas of higher unemployment

in the North so that the positive

results of the peace process can

be visible to young people. We

must give them hope and belief

in the constitutional process.

We must plan to give them the

opportunity to earn a living in

the land of their birth and to contribute to its development.

hope, is that the fast approach-

ing 21st century will be the first century in our island history in

which the evil genius of mistrust and violence will be finally laid

to rest, and politics alone - in

will direct the affairs of all of

The writer, a member of the

British Parliament and the Euro-

pean Parliament, is leader of the

Social Democratic and Labor

Party of Northern Ireland. He

contributed this comment to The

all its dynamism and vigor -

the people of Ireland.

Washington Post.

My hope, and it is a confident

While we work for political

ple from all our traditions.

We in Ireland are engaged in

PLUTONIUM. INFLATION

hinted that he might inspire a mutiny or undertake a personal bid for the leadership. Mr. Yeltsin immediately retreated, praising the general's "great role" in keeping things "under control." All three episodes reflect a

and retribution in the Yeltsin camp. No Russian or Soviet leader has ever left power voluntarily. Given the traumas he has inflicted on the country, it is easy to understand why Mr. Yeltsin may not want to be the first. Having ruled mostly by decree (some 2,300 in 1993 alone), without or in open defiance of parliaments, constitutions and laws, having set the precedent of a political trial against the Communist Party in 1992 and then used tanks to imprison his own former allies last year, and having tolerated financial scams that victimized millions of small investors while embracing high-level associates widely suspected of corruption, a powerless Yeltsin would risk becoming the target of any vengeful

politics that ensued. Alarmed and divided, Mr. Yeltsin's inner circle is giving him conflicting advice. One faction is urging an early presidential election before the economic crisis gets even worse and the opposition finally finds a candidate who can at least equal Mr. Yeltsin's lowly ratings in the polls. The other group wants him to shed all such remnants of democratic "romanticism" and become a fully authoritarian leader: a "Russian Pinochet," as General Lebed and even many pro-Yeltsin "democrais" are calling for.

Some Russian analysts doubt that anyone involved in the decisions to abolish the Soviet Union, launch shock therapy or assault

the Parliament could be re-elected. If that is correct, truly democratic elections would oust most Yeltsinites from power. But their hard-line rivals also are unpopular and unconfident, partly because several of them initially supported Mr. Yeltsin's breakup of the union. Moreover, many anti-Yeltsin oppositionists who won seats in the State Duma have shown little interest in investigating the suspect voting results and may go along with his offer to cancel both scheduled elections. They too fear the country's anti-

The Pinochet solution that so clearly tempts Mr. Yeltsin may be even riskier. Russia's aspiring capitalist class is still too small to support such a regime and few army officers could be counted on to do Mr. Yeltsin's bidding; they would more likely turn to their own pretenders. Either way, Rus sia's historic experiment with de-

The writer, a professor of politics and Russian studies at Princeton University, contributed this to the International Herald Tribune.

IN OUR PAGES: 100, 75 AND 50 YEARS AGO

1894: Zola the Unholy

novel has been placed on the In-dex Expurgatorius; which means that according to canon law the work ought to be withdrawn from circulation by the author, copies of it destroyed by those who have any, and the edition torn up. The author may be excommunicated if he does not submit. Henceforth all those of the faithful who read the

1919: Rail Strike Talks

LONDON - The strike situadiately at the close of this conferwhich were present managers of the various railway companies.

LONDON — [From our New York edition:] The British para-

troopers cut off for eight days in the vicinity of Arnnem, areatest have waged one of the greatest fights in history and probably will make it possible for Lieutenant make it possible for Lieutenant Miles C. Dempsoy to hearing line. The American paratroopers who started landing a week ago Sunday [Sept. 17] at the same time as the British have had a less spectacular part in making possi-ble the advance of the British 2nd Army, yet a part which is in no way less essential. At times the advancing British column held no more ground than the vehicles actually occupied on the road.

مِلْدَا مِنْ لِلْصِلْ

establishment mood.

mocracy would be over. Will anyone ask Mr. Yeltsin

about these retrograde machinations when he visits Washington? Will the Clinton administration change its policy toward Russia before it is too late? That policy, a "strategic partnership and friendship" based on a crusade to transform Russia along American lines, has failed, becoming little more than zealous cheerleading for a leader whose polarizing legacy may far outweigh any good he has done. Without a more ecumenical approach, America will have few friends or partners in post-Yeltsin Russia. Or does America prefer a Russian Pinochet?

LOURDES - M. Zola's last

book are in a state of mortal sin.

tion on the British railways has cleared up somewhat during the past twenty-four hours, and the imminence of a tie-up of transportation is not so apparent. Representatives of the Railwaymens Union met to-day [Sept. 25] with Sir Eric Geddes. Imme-

ence another was called by Prime Minister Lloyd George, at 1944: British Advance

Singapore

To Shift

Savings

Foreign Markets

Become Eligible

For Investments

By Michael Richardson

International Herald Tribune

to strengthen its position as an

Asian financial center and in-

vest more of its surplus savings

overseas. Singapore will take a

series of steps over the next few

years to encourage develop-

ment of fund management and

investment banking.

SINGAPORE — In a move

International Herald Tribune, Monday, September 26, 1994

CAPITAL MARKETS

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New Floating-Rate Bond Shows German Flexibility

By Carl Gewirtz International Herald Tribune

ARIS - For the first time since unification four years ago. the German government this week will offer investors longterm bonds with a floating interest rate rather than a fixed coupon. Analysts agreed that it was a smart move aimed at breaching the mismatch between investor preferences for short-term exposure with the government's need for long-term funds. They also see it designed to calm fears about an imminent increase in interest rates.

Even more reassuring was last week's announcement of Germany's borrowing requirement for the fourth quarter: about 45 billion Deutsche marks (\$29 billion), significantly below the levels that had been rumored to be potentially destabilizing.

Germany's offer of

The details of the financing calendar — specifying type of instrument, maturity as well as expected size - was new and velcomed as providing a needed transparency for the market.

floating-rate bonds is a pragmatic solution to The unusual decision to sell floating-rate paper, expected to a financing problem.
be a 10-year issue of 10 billion

DM with interest most likely at a quarter-point below the Frankfurt interbank offered rate, "should not be interpreted as a sign of weakness," said Richard Reid of Union Bank of Switzerland. "It's a pragmatic solution to a financing problem.
"There is no shortage of savings in Germany," he said, "but there is a mismatch between the high-liquidity preference of savers and

the government's need."

With the coupon regularly recalculated in line with money-market rates, investors get an asset that incorporates the essential features of a short-term instrument, while the government gets its money for 10 years. Money-market funds, which were authorized to begin operating in August, are expected to be large buyers of such paper.

Guido Barthels at J. P. Morgan & Co. said the move demonstrat-

ed the government's conviction that long-term rates were headed lower. "If bond yields were expected to stabilize or go on rising, the government obviously would sell fixed-coupon paper now. I interpret the decision to issue floating-rate paper as an indication that the Finance Ministry thinks yields will be declining and that fixedrate paper can be sold later at lower cost."

A fixed-coupon, 10-year bond would be difficult to sell in the current market environment, analysts said. This goes for all currency sectors, apart from the yen.

The World Bank last week sold \$1.5 billion of five-year global bonds. Lead managers were reported to have bought back almost a quarter of the issue to hold the yield steady at the offering spread of 9 basis points over comparably dated U.S. government paper.

This week, Korea Development Bank is expected to sell \$500 million of five-year global bonds. Not only is the size smaller, but

See BONDS, Page 9

International Herald Tribune

of 280 internationally investable 118

stocks from 25 countries,

compiled by Bloomberg 117

Business News.

daily closings.

Jan. 1992 = 100.

Industrial Sectors/Weekend close

9/23/94 9/16/94 % classe class thange

Energy 112.16 116.20 -3.48

Utilities 131.30 130.18 +0.86

Finance 115.48 115.07 +0.36

Services 120.95 121.97 -0.84

World Stock Index, composed

Week ending September 23,

Downbeat Outlook For Dollar This Week

PARIS - This week promises to be a difficult one for the dollar and bond markets in the United States and in Europe, which takes its cue from New York.

The main event will be the meeting Tuesday of the Federal Reserve Board's policymaking panel, who will be looking at the need to raise U.S. interest

rates for the sixth time this year. Whatever the outcome, it looks to be a no-win situation for the dollar.

Analysts agreed that an absence of Fed action this week would fail to soothe fears that a tightening of monetary policy was imminent. Look for "a further bout of weakness for the dollar and U.S. bonds if the Fed fails to act," said Joanne Perez at Banque Indosuez.

But raising rates so soon after last month's half-point increase "carries some risk of conveying the mistaken notion that the Fed is trying to torpedo growth or that officials fear a worse inflation threat than in fact ap-pears likely," said analysts at Salomon Brothers Inc. in New U.S. interest rates would rise in coming months.

The Friday deadline for U.S.-Japanese trade talks also will be an important day for the cur-rency market. Washington has threatened to impose trade sanctions if the talks fail. While markets may have little expectation of dramatic concession from the Japanese, there is still scope for them to be disap-

See DOLLAR, Page 9

Market Discounts Soros Property Fund

By Leslie Eaton New York Times Service

NEW YORK — When George Soros and Paul Reichmann teamed up last year to run a real estate fund, they raised some evebrows — and a lot of hopes. Mr. Soros, after all, was the man with

the golden touch, the trader who in 1992 made more than \$1 billion by betting against Europe's central banks. Mr. Reichmann, on the other hand,

was the visionary who led Olympia & York Developments Ltd. into bankruptcy, the real estate mogul whose empire collapsed under the weight of London's Canary Wharf development. Wits joked that next Mr. Soros would hire Michael Milken to run a bond fund.

But the partnership was also widely hailed as a sign that commercial real estate might be recovering from the brutal bear market that followed the overbuilding of the 1980s.

If an investor as canny as Mr. Soros was swooping in to snap up office buildings, maybe there was hope even for all those glass-walled structures that have never attracted tenants.

Recently, however, there have been signs that sailing has not been smooth for the \$525 million Quantum Realty

Trust, named after Mr. Soros's flagship Quantum Fund,

Mr. Reichmann is no longer involved in Quantum Realty's daily operations. though he remains nonexecutive chairman of the fund's manager, Reichmann International, which has had three chief executives in as many months. "Every-body's buzzing about it," said one real estate executive.

Investors may have soured on the fund. Its share price, which is set by a dealer in London, has tumbled more than 22 percent from its peak in early January, far more than the British stock market's 12 percent decline in the same stretch.

Mr. Soros's funds are not listed on stock exchanges, but are bought and sold by a small group of friendly dealers. Even more surprising, perhaps, is that Quantum Realty's London dealer, Edgar Astaire & Co., is bidding less for the shares than Quantum Realty says they are worth based on the value of the fund's holdings. Last week, the fund's net-asset value was reported as about \$135 a share, but the dealer bid just \$121,

a 10 percent discount. Matthew Wilson, head of finance and administration for Edgar Astaire, said that Quantum Realty was trading at a discount "because it is in real estate: most real estate companies trade at a discount to their net assets.

But Mr. Soros's funds are famous for trading at a steep premium to the value of their holdings: the flagship Quantum Fund itself, which takes big bets in stocks. bonds, and currencies, maintained a double-digit premium even after Mr. Soros acknowledged he lost \$600 million on

Feb. 14 because of a bad bet on the yen. Until recently, Quantum Realty had followed that pattern, generally trading

at a premium, sometimes a large one. At worst, in September 1993, the dealer's bid had briefly hovered just below net-asset value. But since May, the bid has been sinking steadily, while the net

asset value has remained fairly steady. Quantum Realty's recent discount "is a significant event in the way the whole empire functions," said the head of a large money management firm.

The new head of Quantum Realty's manager, Vernon Schwartz, acknowledged that Reischmann International migh have looked like it was in some turmoil but he said the succession of executives was not as disorganized as it appeared." As for the rumors that Mr. Soros and Mr. Reichmann have had a falling out,

Mr. Schwartz said he had heard them but

refused to comment.

The measures, announced ov-er the weekend by Lee Kuan Yew, Singapore's senior minister, will greatly enlarge the amount of Singapore capital available for foreign investment and attract international financial institutions, bankers said Sunday. Mr. Lee indicated the pool of

money available by the end of the decade for private-sector management as a result of the reforms could be 80 billion Singapore dollars (\$54.1 billion). The money will come from

the country's compulsory savings plan, known as the Central Provident Fund, and from state agencies, utilities and government-linked companies.

Largely as a result of the fund, Singapore has a national savings rate of about 46 percent of its gross national product, one of the highest levels in the world.

Government-controlled statutory boards have accumulated significant financial surpluses and have not had to turn to the private sector for capital in a major way.

However, Mr. Lee said Saturday that "comfortable in-house loan arrangements" would not help government officials and executives of government-linked firms "sharpen their sense for opportunities and innovation, which is necessary for a successful financial center."

For some time, members of the central fund have been allowed to buy shares in certain government's position in three Singapore companies. Starting in January, rules will be altered to allow them to invest in foreign proved unit trusts and fund management accounts.

Initially, investments will be confined to foreign shares and bonds traded on the Singapore stock exchange and to selected regional markets, such as Malaysia, Thailand, Hong Kong, South Korea and Taiwan.

But Mr. Lee said that beginning in January 1999, the scope would be widened to include capital markets outside Asia, such as the United States, Germany and Japan.

Limits on investments denominated in foreign currencies, which will be set at 20 percent of

Germany Wary of Plans for IMF Aid

FRANKFURT - Germany, which has long urged other York. They were convinced countries to help former Communist countries onto their feet. now finds itself complaining that such assistance could be uncomfortably inflationary.

In particular, the German central bank is worried by a plan by senior International Monetary Fund member states to provide increased capital to the former Communist bloc in the form of Special Drawing Rights.

SDRs, a type of currency based on credit with the fund, posed increase, amounting to have long occupied an incon- about 36 billion SDRs, would

spicuous corner of the financial world. But the looming debate between the Bundesbank and its major counterparts promises to thrust SDRs into the spotlight at the IMF annual meeting, which is to start Wednesday in Madrid.

At issue for the Bundesbank is the inflationary impact of a large injection of marks into the world monetary system.

Although the Bundesbank may well force other countries to compromise on how many SDRs will be issued, the pro-

equal roughly 82 billion Deut-sche marks (\$53.66 billion). Only a portion of this greater world liquidity. The amount would actually be converted into marks, but many in the Bundesbank worry about

"in view of the abundance of international liquidity, I see no point in taking artificial measures to add even more to global liquidity," Bundesbank President Hans Tietmeyer said earlier this month.

the consequences.

Bundesbank does not favor bank feels there is enough money to meet the world's needs and fears an increase would lead to higher global inflation that no country, including Germany, could avoid. A second aspect of SDR cre-

ation is that many of those SDRs could be converted to marks, making it hard for the Bundesbank to keep a grip on

Economists said that two in- its money supply. Some econoterrelated factors are leaving the mists say the mark share could Bundesbank unhappy about the rotal more than 20 percent of the SDR issue.

Frankfurt Notebook

Why Is This Man Missing?

Was Jürgen Schneider, the German develop-er whose disappearance left banks holding 5 don't think the 5-DM share will contribute to debt, himself the victim of foul play?

Schneider's lawyers have asked federal investigators to conduct a handwriting analysis of letters that entrusted them with control of his affairs before he disappeared around Easter.

Rumors suggest Mr. Schneider could be either dead or the unwilling accomplice of organized crime or terrorist interests set on getting hold of money he transferred abroad.

Mr. Schneider's lawyers say they have had no contact with their client in months. A spokesman for the Frankfurt prosecutor's

office, however, which is coordinating the search, said Mr. Schneider had "left a track" a few weeks back. Iranian opposition figures in Bonn have suggested he was holed up in Iran.

The developer has been charged with credit fraud, document falsification, looting his companies when he knew they were about to go bankrupt and tax evasion.

People's Stock Missing Its Market Germans are perplexed at the advent of the

Volksaktie, or people's stock, the nominal value of which is 5 DM rather than the usual 50. Such inexpensive shares in Fielmann AG. Europe's largest optician and the first to test the tool, were originally offered only in blocks of 50 or 100 shares, making it unappealing for small investors. Although Fielmann stock can now be bought and sold individually at a daily fixed price, most banks and brokers refuse to trade it in small lots at variable prices.

Martin Kohlhaussen, chairman of Commerzbank AG. said banks would lose money

billion Deutsche marks (\$3.23 billion) in bad the popularization of equities, but I'd welcome it if it did," he said.

In the latest twist of this mystery, Mr. But as trade in Volksaktien stumbles, companies are lining up to issue the discount shares. Daimler-Benz AG. Allianz AG Holding, Bayer AG and Deutsche Bank AG are considering the issue of 5 DM shares and Schering AG, the pharmaceuticals company, plans to convert all of its outstanding shares to Volksaktien at its next annual meeting.

Missing Out on Money Funds

Rolf Breuer, chairman of the supervisory board of Deutsche Börse AG, recently accused the Bundesbank of undermining Germany's financial attractiveness to foreign in-

Mr. Brever said the Bundesbank has done Frankfurt a disservice by seeking to limit the expected success of money market funds, which became legal on Aug. 1. The Bundesbank recently announced it would discontinue a kind of short-term government security in which the funds were expected to invest heavily in order to avoid encouraging a trend to short-term maturities.

The result is that German money market funds "will buy the short-term debt of the French government, the Belgian government. the Dutch government and every other government of this world, ultimately financing our European friends," he said.

There is "no rational reason" the Finance Ministry and Bundesbank should not help the short end of the German government debt market to develop, he said.

Brandon Mitchener

U.S. Seeks 'Social Contract' To Upgrade Worker Skills Mr. Reich plans to outline the

By Frank Swoboda

Secretary Robert B. Reich wonders if the cost of being economimeans a reduced standard of living for middle-class Americans.

The core meaning of competitiveness has got to be improved living standards for Americans," he said in a week-end interview."If we have economic growth and most Americans don't enjoy it, we're not

succeeding as an economy." Mr. Reich is beginning a campaign for what he calls a 'new social contract" between business, government and citizens to help millions of Ameri-cans in the "anxious class" survive in today's economic order of downsizing, re-engineering and global competition.

The sign of excellence

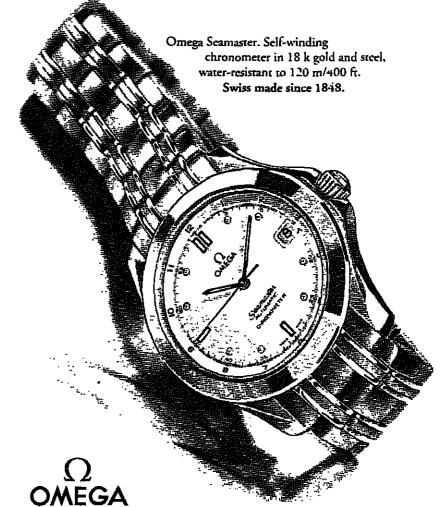
WASHINGTON - Labor speeches, beginning with an address on the proper role of busi-ness to the National Alliance of cally competitive is too high if it Business in Dallas on Tuesday. Certainly, not everyone is do-

ing poorly in the current recovery. More than 2 million jobs have been created during the past two years, but 8 million are unemployed and 4 million others are working part-time but want full-time jobs. Mr. Reich noted the paradox

of an economy that has so many people unemployed while Wall Street frets about the possibility of inflation rising because of tight labor markets and a shortage of skilled labor.

He said the government would like to see companies within various industries share the value of a fund are to be the costs of basic-skill training, raised to 50 percent by 1999.

THE LINK BETWEEN THE PAST AND THE FUTURE



CURRENCY RATES

The Index tracks U.S. dollar values of stocks in: Tokyo, New York, London, and Argentina, Australia, Australia, Belgium, Brazil, Canada, Chile, Denmerk, Finland, France, Germany, Hong Kong, Italy, Mexico, Netherlands, New Zeeland, Norwity, Singapora, Spain, Swaden, Switzerland and Vanazuala. For Tokyo. New York and London, the Index is composed of the 20 top issues in terms of market capitalization, otherwise the ten top stocks are tracked.

Capital Goods 117.29 117.98 -0.58

Raw Materials 134.83 137.75 -2.12

Consumer Goods 103.17 104.33 -1.11

Miscellaneous 134.18 136.97 -2.04

Sept. 23 | Sept 283 1201 \$788 1/98 4.559 1/9410 215 29.00 159.0 171.01 1863 151.75 1.89 0530 2271 7.761 2253.5 2566 42776 1867 N.Q. 1,779 186.71 Ciosinos in Amsterdam, London, New York, Toronto and Zurich, fixings in other centers.

a: To buy one bound; h: To buy one dollar; ": Units of 100; N.Q.: not qualed; N.A.; not

Other Dollar Values Currency Per \$
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Talwan \$ 26.18 Currency Max. peso N. Zeoland S 7er \$ 3.405 1.6606 6.765 25.60 N. Zeersch 12000 Horw, trone 4.765 Phil, pesa 25.60 Polish ziofy 23139. Pert. escudo 158.05 Russ, rubte 2201.00 Seudi rival 3.75 Sies. \$ 1.4775

#9-day 1_5734 1_5483 1_2691 Sources: IntO Bank (Amsterdam): Indosure Bank (Brussels); Banca Commerciale Italian (Millan): Agénce France Presse (Paris): Bank of Tokyo (Tokyo): Royal Bank of Canada (Taranto): 188F ISDR), Other data from Reuters and AP,

EXTRAORDINARY GENERAL MEETING

Further to the Board of Directors' press release of 18 August 1994, an Extraordinary General Meeting of Shareholders of L'OREAL S.A. was held at Clichy on Thursday, 22 September 1994, chaired by Mr Lindsay OWEN-JONES, Chairman and Chief Executive Officer.

Having exceeded the quorum of a third of the shares with voting rights, the Meeting was able to vote on the proposed resolutions on the agenda. The shareholders widely approved the proposed transfer by GESPARAL to L'OREAL of shares representing 51.16% of the issued capital of COSMAIR inc.

USA and 29.63% of the issued capital of COSMAIR CANADA Inc. NESTLÉ will now sell to L'OREAL, for cash, its remaining shares in COSMAIR Inc. USA and COSMAIR CANADA Inc., together with its shares in LORSA-

FAGEL (Switzerland) and PROCASA (Spain). L'OREAL will therefore own 100% of COSMAIR Inc. USA and LORSA-FAGEL 72.63% of COSMAIR CANADA Inc. and 49% of PROCASA.

These acquisitions will provide a stronger basis for the Group's international development by reinforcing its positions in two of the major markets in the world, North America and Western Europe.

For further information, please consult your bank, stockbroker or financial institution as well as your usual newspapers. More details can be obtained by writing to the Business Information and Investor Relations Director, L'ORÉAL 41 rue Martre, 92117 Clichy, France. Fax. (33-1) 47 56 80 02.

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مكذاعنه لأصل

New International Road Issues

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Complied by Paul Flo	ren					
issuer	Amount (millions)	Mat.	Соцр. %	Price	Price end week	Terms
Floating Rate N	Otes					
Nordbanken	\$100	2004	0.45	100		Over 3-month Libor until 1999, when issue is callable at parthereafter 1.75 over Profifered at 99.58. Fees 0.67%. Denominations \$10,000. (Chemical Investment Bank.)
Yasuda Trust Asia Pacific	\$100	2004	У	102		Over 3-month Libor. Maximum interest 10%. Fees 2% Denominations \$100,000 (Namura Int'l.)
Alliance & Leicester Building Society	£100	1999	1/16	100		Over 3-month Libor, Noncollable Fees not disclosed, (J.P. Morgan Securities.)
Leeds Permonent Building Society	£100	1999	1/16	100	_	Over 3-month Liber, 1 toncollable. Fees not disclosed, Denominations £100,000. (HSBC Markets.)
Fixed-Coupons						
GMAC	\$200	1997	71/4	101.075	99.65	Reaftered at 99.95. Norwallable, Fees 136%, (Swiss Bank Carp.)
Household Affinity Credit Card Master Trust 1	\$870	1999	7	99.28	_	Average life 36 months, Fees not disclosed. (Goldman Sachs Co.)
Toyota Motor Credit Corp.	\$300	1996	64	100.95	100.03	Reoffered at 99.95. Noncallable, Fees 11/6%. (CS First Baston.)
Trinidad & Tobago	\$150	2004	113/4	99.734	_	Semiannually Noncollable Fees 1% Denominations \$10,000. (Cimbank Int 1.)
World Bank	\$1,500	1999	71/2	99.471	99.30	Semiannually. Noncallable. Fees 0.25%. [Union Bank of Switzerland.]
European investment Bank	£100	1998	8%	101	_	Reaffered or 99.65. Noncolliable, Fees not disclosed. (HSBC Markets.)

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10 -	Halifax Building Society	£250	1997	8¾	100.515		Feoffered at 99.34. Noncollable, Fess 11/26. (5.G. Warburg.)
IR READE.	Kobe City	£200	2004	9½	99.45		Noncollable, Fees 0.325%, (Union Bank Switzerland.)
AU	Nestle Holdings	€ 75	1997	8%	707.087	_	Reoffered at 99.90. Noncallable. Fees 136%. (J.P. Morgan Securities.)
FD A RIAL	Argenting	m. 300,000	1997	13.45	100	99.13	Reoffered at 99%, Nancallable, Fees 1 16%, (Chase Manhattan)
TURING	European Investment Bank	п. 200,000	1997	11.45	102	100.95	Noncallable, Fungible with outstanding issue, raising total amount to 700 billion line. Fees 1:49, (Banca di Roma.)
	European Investment	ECO 300	1999	81/4	100.985	99.40	Reaffered or 99.36. Noncollable, Fees 13/%, (Swiss Bank

Philip Morris Capital

Australian Industry

Development Corp.

Commerzbank

(Cayman)

(Cayman)

(Cayman)

(Cayman)

Overseas Finance

Daiwa Int'l Finance

Daiwa Int'l Finance

Daiwa Int'l Finance

Daiwa Int'l Finance

Equity-Linked

Telekom Malaysia

Yang Ming Marine

Transport

Aus\$ 100

Aus\$ 125

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1997

1999

2004

2005 5

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2001 open 100

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SHORT COVER

Y7,500 2004 5

Y 8,000 2005 5

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ed by	Paul Floren		

ns)	Mat. 	% ————	Price	end week	Terms	By Louis Uchite New York Times Serv
						WASHINGTON - manufacturers, declari
00	2004	0.45	100	_	Over 3-month Libor until 1999, when issue is callable at par, thereafter 1.95 over Feoffered at 99.58. Fees 0.67%, Denominations \$10,000. (Chemical Investment Bank.)	their businesses are pro and their hiring is usunged the Federal
00	2004	1/2	102	_	Over 3-month Libor. Maximum interest 10%, Fees 2% Denominations \$100,000 (Namura Int'l.)	Board not to raise inter again this year. They sa
00	1999	1/16	100		Over 3-month Libor. Noncallable Fees not disclosed. (J.P. Morgan Securities.)	er rates would endang prosperity. In taking this posi
00	1999	1/16	100		Over 3-month Libor, 1 annoallable. Fees not disclosed, Denominations £100,000. (HSBC Markets.)	Saturday, shortly before policymakers meet Tue consider a sixth rate
00	1997	71/	101			this year, the National
	17 7/	7%	101.075	YY.65	Reaftered at 99.05. Noncollable, Fees 136%, (Swiss Bank Corp.)	tion of Manufacturers challenged a basic tene
70	1999	7	99.28	_	Average life 36 months, Fees not disclosed. (Goldman Sachs	central bank's policy.

Noncallable, Fees not disclosed, (Margan Stanley Int'l.)

Innerest will be 5% until 2000, when issue is callable at 100,

thereafter 5.30%. Fees not disclosed. Denominations 100 million yen. (Merrill Lynch Int'l.)

Semiconoual interest will be 5% until 1999, thereafter 5,28%

Fees not disclosed. Also 2.5 billion yen paying 5% uml 1999, thereafter 54%. Denominations 100 million yen. (Salaman

Interest will be 5% until 2000, when issue is callable at 100, thereafter 514%. Fees not disclosed. Denominators 100 million

Couton not disclosed. Noncollable. Fees not disclosed. De-

Semionnually, Callable at par in 1999. Convertible at 23.40

Coupon indicated at 1% to 25%. Redeemable in 1999 to yield

Fees 21/1% Terms to be set Sept. 26. (Boring Brothers Int'l)

Semiannually, Noncallable, Convertible at 2,573 year per

t per share, a 10% premium, and at 2.5553 ringgitt per Fees 21%. (CS First Boston.)

ECU 150 1998 81/2 101.35 100.10 Reoffered at 100. Noncollable, Fees 11/16, (Paritos Capito

Brothers Int'l.1

yen. (Nomura inti.)

600 to 640% Com

100% 99.05 Noncollable, Fees 11/2%, (Hambras Bank.)

The association did not pass

Manufacturers Ask Fed Not to Raise Rates

ring that rospering up, have Reserve erest rates said highiger their

sition on fore Fed directly

While most Fed officials insist that rising inflation poses the greatest danger to the economy and should be prevented, even at the cost of an economic slowdown, the manufacturers take the opposite view. They prefer a little inflation, which gives them leeway to raise

a formal resolution at a threeday meeting here, attended by it is to reverse rising inflation." 115 chief executives of compa-

automakers to small machine

But the executives opposed a rise in rates in a poll taken at the meeting, part of the associa-

U.S. CREDIT MARKETS

tion's effort to prevent a rate increase that might slow the economy and dampen its memesday to bers' sales.

Summarizing the results of the poll, the president of the association. Jerry Jasinowski, et of the said Saturday, "The overwhelming majority believe that the Fed should hold interest rates at current levels or delay any further action until late this year of next year."

Stanley C. Gault, chairman of Goodyear Tire & Rubber Co. and a former chairman of the manufacturers' group, said: "We have to be particularly careful about what we do now. It is as hard or harder to reverse a slowdown in the economy as

The manufacturers rarely

nies ranging from giants as come out so publicly or bluntly Boeing Co. and the Big Three against a rate increase. But this time, they said, an interest rate rise would catch them just as their sales are expanding, mostly from the ripple effects of strong home construction and

> "Higher rates can create uncertainty, and this can get translated into procrastination and delay in making purchases." Mr. Gault said.

surging auto and truck sales.

But even executives of companies removed from the auto and construction industries expressed concern about rates.

Lawrence W. Clarkson, a senior vice president of Boeing. for example, said higher rates might discourage people from buying airline tickets on credit, just as air travel was rising and airlines might be ready to order more new planes. "Leisure travel is very interest-rate sensitive." he said.

In their poll, the manufacturers rejected a main argument for a rate increase intended to reduce consumer demand, and with it economic activity, by

The argument is that shortages of labor and of production

For his company, Varian Associates Inc., which makes ma-

is a dogfight over prices.

of a rate increase have played a role in the steady decline of stock prices in recent days and

in the upward pressure on interest rates in the bond market. The yield on the benchmark 30-year Treasury bond closed at 7.79 percent on Friday, up from

Pressure on bond prices also stemmed from the rising gold prices, which touched \$400 an ounce on Friday in New York, fueling inflation and rate con-

Citing surprising strength in count rates by 50 basis points.

Orders Soar In August For U.S. Tools

WASHINGTON — U.S machine tool orders soared 80.5 percent in August from a year earlier, reflecting increased demand from major auto manufacturers to small and midsized factories, the Association of Manufacturing Technology said Sunday.

"The 1994 order total continues to move ahead of 1993," said Albert Moore, president of the association.

But orders declined 7.6 percent in August from July, the second monthly de decline, as manufacturers shut down for summer vacation, the associa-

August machine tool orders decreased to \$327.45 million after declining 12.2 percent to \$354.25 million in July.

Economists monitor machine tool orders and shipments to gauge industrial output, consumer demand and business in-

Israel Lifts Interest Rates

JERUSALEM (Combined Dispatches) - The central bank of Israel said Sunday it was raising its interest rates 1.5 percentage points to battle double-digit inflation.

For the second consecutive month, the government raised the basic lending rate to commercial banks by 1.5 percentage points, bringing the rate it will charge at monetary tenders in October to

"It was necessary to raise interest rates because we have a heated economy," said Jacob Frenkel, a governor of the Bank of Israel. But some analysts said that monetary policy alone would not be enough to lower inflation, which is running at an annual rate of (Reuters, Bloomberg)

No Progress in Trade Talks

TOKYO (Reuters) - Japanese trade negotiators are privately pessimistic about the framework trade talks with the United States and think Washington will move toward sanctions, the Kyodo news agency reported Sunday.

The agency said it had obtained internal Japanese government papers that said officials thought the two countries were a long way apart on basic issues, making it hard to reach an agreement by

a U.S.-imposed deadline Friday.

In Washington, Mickey Kantor, the U.S. trade representative, and Foreign Minister Yohei Kono of Japan announced no agreement after talks Saturday on access to Japanese markets. But negotiators agreed to make a midweek attempt to resolve the dispute, even though few of them expected a breakthrough until closer to the deadline.

OPEC Aims for \$18 to \$22 Oil Price

DOHA, Qatar (AFP) - Members of the Organization of Petroleum Exporting Countries should aim for a price of \$18 to \$22 a barrel over the next three years, the OPEC president, Abdullah Badri, said Sunday.

Mr. Badri, who is also the oil minster of Libya, did not explain why the price target differed from OPEC's benchmark price of \$21, set in 1990 but never reached because of the weak oil market. OPEC countries respect their production quotas but the benchmark price is a long way from being reached," Mr. Badri said after a meeting with Abdallah Attia, the energy minister of Qatar.

Coles Myer Wants to Cancel Stake

SYDNEY (Bloomberg) — Peter Bartels, chief executive of Coles Myers Ltd. said Sunday he wanted the company to cancel all the 276 million shares in his company formerly held by Kmart Corp. Mr. Bartels told the Nine Network's Business Sunday program that his preference was "is to cancel the stock, have the debt on the balance sheet and make sure everyone is focussed on working for the good of the shareholders." Shareholders voted last week to approve a buyback of the 276 million shares, equivalent to 21.45 percent of the company's equity, formerly held by the U.S. retailer.

Coles Myers will cancel almost half the newly acquired stake. It said last week that it was looking for buyers for the remaining 147 million shares. However, the company has said repeatedly that if it does not find any takers, it could cancel those shares too. Coles bought the 11.45 percent stake after Barclays De Zoete Wedd Australia was unable to find buyers prepared to pay 4.55 Australian dollars (\$3.36) each for the shares, which is what Coles paid Kmart.

Pakistan Buys U.S. Power Plants

ISLAMABAD (Reuters) - U.S. businessmen signed agreements on Saturday for energy deals amounting to a \$4 billion investment in Pakistan.

The deals, signed during a visit by U.S. Energy Secretary Hazel R. O'Leary, included two power plants with a combined value of \$1.73 billion. Mrs. O'Leary, who headed a delegation of more than 80 business leaders, said the energy deals were a recognition of Islamabad's "revolutionary and profoundly deep" economic reforms.

For the Record

ASSES 2000年の1900年で

British Telecommunications PLC and Tele Danmark are expected to announce a "significant international cooperation" agreement at a press conference on Monday. Wharf Cable Ltd., the cable-television unit of Wharf (Holdings) Ltd. is to launch a 24-hour financial news channel in Hong Kong (Reuters) on Monday.

DOLLAR: A Tough Week Ahead

Continued from Page 7 ointed," said Mark Cliffe at Midland Bank in London.

U.S. bonds and the dollar could not be more badly timed from the perspective of Japanese investors," Mr. Cliffe said.

October is the start of the second half of Japan's financial year and is traditionally a busy month for buying foreign bonds.

Joe Prendergast, an analyst at Paribas Ltd. in London, said that even a trade agreement was unlikely to lift the dollar.

Japan widened to \$5.67 billion on Oct. 16." in July from \$5.52 billion in June

overall deficit Noting the expansion of the

and accounted for half of the

U.S. trade deficit with Japan, Mr. Prendereasi said that "until there is some clear indication that the trade balance is actually turning, there will be limited confidence in the dollar's upside potential against the yen. As such, the sustainability of any dollar rally on a partial trade deal will be questionable."

His advice is to sell the dollar on any rally against the yen or the Deutsche mark. "The risk remains for a further blowout to the downside for the dollar versus the mark, though this The United States said last will most likely have to wait week that its trade deficit with until after the German elections

Argentina, in its first appear-

ance in the lira market, in-

300 billion lire from the initially

indicated 250 billion lire thanks

to the 13.83 percent yield. Ar-

gentina is preparing to tap the

dollar market with a \$500 mil-

lion global issue.

Euromarts

Eurobond Yields

UFODORIGE Y 101-23

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U.S. 1, short term 8.73 7.25

Pounds sterling 9.35 9.15

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Last September 9.44 8.65

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8.69 9.71 10.84 10.91 8.75 8.68 9.34 8.19 9.14 9.00 9.64 9.57 9.41 8.85 4.54 4.56

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358.10 565.50 1.302.10 1.316.30 5892.50 2028.20 24.079.20 5.274.20 6.522.90 9.98.80 10.964.40 26.377.20 22.770.60 22.766.30 62.496.70 60.810.50

Eurociear, Cedel,

Libor Rates

Deutsche mark	5
Pound sterling	57/16
French franc	57/16
EGU	53.
Yen	27/16

Source: Lyxemboury Stock Exchange.

Yr bigh Yr 7.92 6 2.52 5 2.52 5 11.29 7 8.74 6 11.21 7 8.79 6 8.34 5 9.64 6 9.41 5 9.44 6

5.65 4.26 5.67 7.91 6.18 5.81 6.38 6.39 5.24

Sept. 22

Sept. 23

5 11/16 5 5/16 6 7/16 5 15/16

At a Glance

- CARL GEWIRTZ

BONDS: A Pragmatic Solution

Continued from Page 7 the spread over the U.S. bench-

mark is likely to be 85 basis creased its three-year issue to points - a level expected to attract yield-hungry investors.

Lebanon will offer its first issue this week. Its three-year paper, expected to total at least \$200 million, will be priced to yield at least 325 basis points over benchmark rates.

U.S. Fund Says Swedish Debts Pose Default Risk

STOCKHOLM — Moore Capital, a hedge-fund manager, has said Sweden's high state debt made it the most likely western European country to be unable to meet its debt payments.

"Sweden is the country in Europe that is running the greatest risk to being forced to stop its payments," Moore Capital wrote in an internal study on the Swedish economy, which was published in the daily newspaper Dagens Industri.

The budget deficit for the year ended June 30 was 181 billion kronor (\$24 billion), 11 percent ECP of economic output. State debt is 1.29 trillion kronor, projected by the government to grow to 1.9 trillion by 1999. Moore said 2.3 trillion was likely.

In July, Skandia Forsakrings | Conve AB said it had would not buy state bonds until the government did something to tackle the debt. This month, the Vontobel fund of Switzerland said it was selling its Swedish bonds on concerns they would be downgraded.

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BusinessWeek

This week's topics:

- O Apple Needs Market Gains To Keep Up

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SCONTINVEST FUND MANAGEMENT COMPANY S.A.

18 Boulevard Royal

- SCONTINVEST FUND-MULTICA RRENCA SWISS FRANC BOND become
- SCONTINUEST FUND-MULTICE BRENCY ROND THENCH FRANCE
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- SCONTINVEST FUND-MULTICERRENCY FRENCH VEN BOND becomes
- SCONTENVEST FLAD-MULTICLERFACY BOND "YEN" Despite this change of name, the investment policy of hereinabovementioned compartments remains unchanged.
- Furthermore, the investment policy of SCONTINVEST FUND-MULTICURRENCY "EUROVAL" - EUROPEAN EQUITY and
- (denominated in E(X) compartment invested in shares and other transferable securities of same nature from European Issuers (convertible bonds, warrants and other capital securities; the marrants represent for the investor a higher risk than ordinary transferable securitles due to their solutility), Refed on the European markets EEC or non EEC;

SCONTINVEST FUND-PACIFIC EQUITY (denominated in US Dollars) compariment invested in shares, other transferable accurities of same nature and convertible bonds or with narrants issued by issuers of first class or guaranteed by guarantors of first class of countries from the Pacific

Updated prospectuses containing these amendments are available at the registered office of the management company as well as the registered office of the custodian hank.

> By order the Board of Directors Luxembourg, August 24th 1994.

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Notice is hereby given to the unitholders of SCONTINVEST FUND that the board of directors of the management company has decided to change the name of certain compartiments of SCONTINVEST

- SCONTINVEST FLAD-MULTICE RRENCY PRESCRI FRANC BOND become
- SCONTINGEST FUND-MULTICI BRENCY BOND "HARK"
- SCONTINVEST FUND-MULTICURRENCY EURO BOAD becomes
- SCONTINVEST FUND-PACIFIC EQUITY is rewarded as follows: SCONTINVEST FUND-MULTICURREMY "EX ROVAL" - EUROPEAN EQUITY

However, this new description does not change in fact the investment policy of these compartments.

discouraging borrowing in a na-tion that runs on credit.

capacity will force manufacturers to raise wages to obtain skilled workers and that the higher wages will force businesses to raise prices sharply.

"We have no strains on capacity, and there is certainly no strong demand for wage increases, said Tracy O'Rourke, the newly elected chairman of the association.

chinery for semiconductor man-ufacturing, he said, Our orders for this machinery will be up 100 percent this year, but every order

Expectations on Wall Street

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CHINA COLOMBIA

DENMARK

DOMINICA FRANCE

GERMANY GREECE

HONG KONG

INDONESIA

ISRAEL

JAPAN

7.78 percent, as the price fell 4/32 point.

the U.S. industrial sector, analysts on Friday said the Fed needed to deal with inflation pressures without delay and would raise the funds and dis-

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Notice to the holders of the Bearer Depositary Receipts ("BDRs") evidencing Participating Redeemable Preference Shares of US 1 cent each ("Shares") of Mezzanine Capital Corporation Limited (the "Company")

NOTICE IS HEREBY GIVEN to the holders of the BDRs that Chemical Bank (Guernsey) Limited ("the Depositary") has received notice from the Company that the Annual General Meeting of the members of the Company will be held at Capital House Building, Bath Street, St. Helier, Jersey, Channel Islands on Wednesday, 19th October, 1994 at 11 00a.m. for

Notice of Annual General Meeting

- the purpose of considering and voting on the following matters 1. To receive and consider the Accounts and Balance Sheet and Reports of the Directors and Auditors for the year ended 31st May, 1994
- 2. To re-appoint Messrs. Price Waterhouse as Auditors of the Company and to authorise the Directors to fix their remuneration 3. To transact any other ordinary business which may properly be transacted at an Annual General Meeting.

BDR holders have the right to attend and speak at the Annual General

Meeting but not themselves to vote thereat. BDR holders may however instruct the Depositary as to the exercise on their behalf of the voting rights ced by the BDRs wh Instructions as to voting must be given either to the Depositary or to a Paying Agent, Cedel or Euroclear (a "Paying Agent") in writing not later than Friday, 14th October, 1994 and must be accompanied by the BDR in respect of the Shares for which such instructions are given. The Depositary or relevant Paying Agent must be satisfied that such BDR is held in a blocked account to its order until after Wednesday, 19th October, 1994.

Voting instruction forms may be obtained from any Paying Agent On deposit of a BDR with or to the order of a Paying Agent like holder thereof may obtain a receipt which will entitle him to attend and speak at the

BDRs deposited with or to the order of a Paying Agent will not be released until the first to occur of (A) the conclusion of the above-mentioned meeting or any adjournment thereof or (B) the surrender to the Paying Agent, not less than 48 hours before the time for which such meeting or any adjournment thereof is conversed, of the receipt issued by the Paying Agent in respect of each such deposited BDR which is to be released or the BDR. or BDRs ceasing with its agreement to be held to its order. The Paying Agent shall promptly give notice to the Depositary of such surrender or

the Paying Agents listed below and Euroclear and Cedel. Depositary and Principal Paying Agent Chemical Bank (Guernsey) Limited. Albert House, PO Box 92, South Esplanade, St. Peter Port, Guernsey. Channel Islands GY1 4BU

Copies of the Company's Annual Report may be obtained from any of

Paying Agents Bankers Trust Luxembourg S.A., PO Box 807, 14 Boulevard FD Roosevelt, Luxembourg, Grand Duchy of Luxembourg Morgan Guaranty Trust Company of New York

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Umile 1204 —11 IncoFe e 1354 —14 Social 2573 —44 Dept 17.92 —3 Umile 1205 —12 Inside e 132 —63 Social 15.0 —04 Dept 252 —6 Volubr 7.55 —38 IncoAp 18.61 —37 Social 252 —73 Dept 427 —0	11 Surrival 1.58 Solitation 11.58 Fundamental Funds Mail 11.58 12.58 12.58 12.58 13.59 13.	Content Cont	CATE 10.20	INVITE 1.7 25 APRIL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Aefma Advisor: TxFUT 9.28 —02 GovtObing 7.97 —101 LCopini 12.25 —0.2 Aefma 1 10.44 —19 Assinas France Corricox 12.96 —18 Facture 18.32 + Bondt 9.48 —8 Bolonce n 9.42 —13 CompagOn-119.41 —02 LSL SVot 10.17 —19 Lindfert 11.44 —02 Fxinc n 9.42 —02 EdGrvC n 9.69 —29 Dodge&Cox TxGree 9.22 —01 Arch Fruds: Fxinc n 9.42 —02 Rolls Fxinc n 9.42 —02 Rolls Fxinc n 9.42 —02 Rolls Fxinc n 9.43 —02 Rolls Fxinc n 9.45 —02	A Arms pr 7.32 Multpp 11.81 122 Arms p 17.32 123 Investor 17.9 Exched r 7.32 135 1	Migdl p 10.24 -01 CallAria 11.57 -06 CoreGina 12.90 -37	Bond n 920 - 31 Asio A 1422 BICh 17.44 - 50 Equity n 1595 - 37 AASio A 1427 BICh 17.44 - 50 Gorinc C 927 - 31 AASio A 6 22 - 34 Bond 19.44 - 31 HYEqu 11.45 - 25 AASin A 128 - 11 Equity 5.30 - 13 Individual 11.45 - 25 AASin A 128 - 11 Equity 5.30 - 13 Individual 11.45 - 25 AASin A 128 - 11 Equity 5.30 - 13 Individual 11.45 - 25 AZIE A 147 - 27 Equity 5.30 - 13 Light 1 1 Equity 5.30 - 13 Light 1 Equity 5.30 - 14 Light 1 Equity 6.30 - 14 Light 1 Eq	Dividend n72.86 - 14 IDSELET II 12.18 - 14 Growfin 20.55 - 34 IdSELET II 17.18 - 14 SmCop n 26.01 - 50 Idstinatina 42.24 - 17.24 Idstinatina 42.24 - 17.24 - 18.24 Idstinatina 42.24 - 18.24 Idstinatina 42.24 - 18.24 Idstinatina 42.24 - 18.24 Idstinatina 42.24 - 18.24 Idstinatina 12.24 Idstina
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Botchell 1443 — 13 BotTrn 7/6 — 11 Grwmap 1346 — 45 Edelind 10,79 + 18 Botchell 129 — 20 GroincT n1122 — 31 HY104 6.88 — 07 FL into 1297 — 20 Control 10,24 — 11 Into 1297 — 20 Income p 4.08 — 20 FL into 1297 — 20 Income p 4.08 — 20 FL into 1297 — 20 Income p 4.08 — 20 FL into 1297 — 20 Income p 4.08 — 20 Grove 1297 — 20 Income p 4.08 — 20 Grove 1297 — 20 Income p 4.08 — 20 Grove 1297 — 20 Income p 4.08 — 20 Grove 1297 — 20 Income p 4.08 — 20 Grove 1297 — 20 Income p 4.08 — 20 Grove 1297 — 20 Income p 4.08 — 20 Grove 1297 — 20 Income p 4.08 — 20 Grove 1297 — 20 Income p 4.08 —	## MonCop 11.5 - 22 Bolt 11.7 - 20 Pochs 4.47 - 25 Unin 9.04 17.5 - 28 Maintop 11.57 - 28 Bolt 11.37 - 20 Stront ox 10.92 - 25 Volleg 17.55 - 3 25 Volleg 25 Volleg 25 Volleg 25 Volleg 25 Volleg 25 V	ANTTE D 15.37 — 33 IMTEGA 1 11.74 — 34 INTTOXEX nº 95 — 31 INTEGEN 1 1.74 — 34 INTOXEX nº 95 — 31 INTOXEX nº 95 — 32 INTOXEX nº 95 — 33 INTOXEX nº 95 — 34 INTOXEX nº 95 — 35 INTOXEX nº 95 — 36 INTOXEX nº	Proceedings Group: Inchina 6.58	Boliaseia pilas - 23
Govifa p 271 — 22 Muniilid x 1435 — 10 NY TE A 278 — 12 InsMun no) 7.11 — 12 Govifa p 7.21 — 23 ShiDurch n457 — 30 ShiDurch n45	2 Espirica 16/19 — 33 Maßert n. 9.39 — 31 MBC p. 10.44 — Imidellery n. 10.47 — 44 Street 17.78 — 31 MCA.m.Ct. 9.42 — 30 Asset no. 23.39 — 41 ST Bondin n. 9.65 — 30 B Govinva p. 9.04 — 31 USGrillip p. 9.22 — 31 Convision p. 11.51 — 34 Small Con 10.09 — 2.55 — 32 Selective n. 10.45 — 31 Selective n. 31 Selective n. 32	5 FIRTOVA 7.90 - 0.11 WHOMA 7.98 - 1.25 USGOVIN 7.79 - 0.02 5 SelGr598 110.18 - 20 NUMA 10.45 - 0.05 Norwest Flunds: 5 ShDurGvA 9.93 - NYAVINA 10.90 - 0.6 AGRUST 9.54 - 0.03 5 Enoingfor Grp: PocA 22.91 - 1.5 AdiGovA 9.54 - 0.03 5 CLOT 10.14 - 2.0 PAMA 10.79 - 0.5 COTFA 9.31 - 0.03 7 CLOT 10.74 - 2.8 PhinxA 12.51 - 2.8 Gyrinch 8.73 - 0.04 1 GRINAN 17.55 - 0.1 SOVIA 12.48 - 1.7 Gyrinch 8.73 - 0.04 1 GRINAN 17.55 - 0.1 SOVIA 12.48 - 1.7 Gyrinch 8.73 - 0.04	Pedican 12.15 - 23	MCCGRA RET 19 RPEGR 1 14.55 46 STCGGF 8 16.71 19 RPEGR 1 1.20 18 STCGGF 8 16.71 19 RPEGR 1 1.20 18 TE insa 11.34 20 RPECV 16.27 37 TE insa 11.34 20 Victory Pundar USGVA 8.16 21 Conded 9.14 13 USGVA 8.16 21 Conded 9.14 13 LARGERT 1.24 27 Equilibrium 1.24 27
GrindB px 2.28 — M7 BUSHEAA 9 11.51 — 24 USGVA 4.26 — M7 Unif n 17.00 — M2 GrindB 11.61 — 17 BNY Harmatten: Units p 11.50 + 51 Unif n 17.00 — M2 IncoBigC x 9.66 — 24 Edita: 10.83 — 20 CA TE B1 6.55 — M7 Unif n 17.00 — M2 IncoBigC x 9.66 — 24 Edita: 10.83 — 20 CA TE B1 7.15 — M1 VITA m 17.00 — M2 IncoBigC x 9.35 — M8 IncoBigC x 9.35 — M8 TE 9.89 — 01 FedScb1 10.07 — 25 MY Tex n 14.47 — DE IncoBig p 1.32 + 10 Copape n 17.56 — 20 FemSb1 7.75 — 31 Pepolind 17.59 — 48 India n 18.83 + 10 IncoBigC x 12.64 — 14 Ght-Bes 1 2.50 — 21 Pepolind 15.55 — 48	22 LIGTERA P935 — 02 VOLUET n 17:30 — 37 Growth np22:31 — 58 Telex 10.12 — 17 LIGTERA 10:34 — 01 Flost investince SmCopp 17:16 — 30 Totikm 10:72 — 18 LIGTEI 9.85 — 02 EmGfhr p 12:24 — 25 Volue p 12:31 — 15 Janus Fund: 8 Cysag P 13:34 — 02 Infrip 9.87 — 10: Galaxy Funds: Bolonced n12:05 — 3 Em 17:17 p 14:14 — 06 AsserAll n 10:46 — 25 Emerc n 22:17 — 17:18 — 18:18 —	Coldisin 7.51 - 44 ST Glap 2.72 Income tr 9.24 - 0.13 Income tr 9.24 - 0.13 Income tr 9.24 - 0.13 Income tr 9.25 - 0.33 Income tr 9.	MCDGrin 7.22 - 23	Internation 9.24 — 92 Foreign 10.12 — 0.5 Internation 9.99 + .02 Foreign 10.12 — 0.5 Internation 14.25 — 13 Frowth 4 .64 — 3.1 Internation 14.25 — 13 Frowth 4 .64 — 3.1 Internation 14.25 — 13 Frowth 16.25 — 15.3 Single 16.25 — 27 Single 16.25 — 2
inff8 18.31 + 10 instEpix n10.35 - 25 GwtH81 13.34 - 35 ShinGv n 10.77 - 00 MrtgA p 8.28 - 00 InviterTen 9.89 - 01 HyWelt 9.89 - 22 Stinc pn 11.79 - 00 MrtgA p 8.29 - 00 InviterApp n9.89 - 34 HySec 81 6.49 - 01 ShinT p 12.92 - 01 MrtgA p 9.20 - 01 InviterApp n9.89 - 34 HySec 81 6.49 - 01 ShinT p 12.92 - 01 MrtgA p 9.21 - 01 InviterApp n9.30 Inv	3 Esplin 1617 — 33 ToffRTsy p 9.39 — Edincon n 12.39 — 22 Griffice 14.77 — 3 2 Stil 69 9.36 — 32 Volue p 11.45 — 25 HiQ Bd 9.66 — 32 Inflor 4.84 — 0 1 Li Bin 10.35 — 01 Flosskip Group: miled 9.66 — 32 Mercury 11.62 — 1 3 Registrian 11.25 — 03 AATEC p 10.99 — 06 Inflor 13.00 — 02 Overseos n 10.14 — 1 AMer n 12.50 — 03 AATEC p 10.39 — 06 Marillo 9.76 — 10 Venitro 12.15 — 3 AMer n 13.50 — 09 AZTEA p 10.22 — 06 Marillo 9.76 — 10 Venitro 15.15 — 3 AMer n 13.50 — 13 CTIEA p 10.22 — 06 Marillo 9.76 — 10 Venitro 15.15 — 3	i Widem 1427 — 03 · AZMB1 10.16 — 07 · CAIRSR 9.97 — 0.06 · .04 · .05 · .05 · .06 ·	VBand n 55,24 + 02	Smit, GBV 11-79 - 18 Science 8 V 9.5 - 17 Torrible 9.50 - 20 Tyrsics 12.50 - 28 Internet 8 Feb. 2 Internet 9.50 - 20 Internet 9
MMS Ap 7.98 + Jil PocBosEq ni 2.05 NY TX\$! 6.7803 Dreyfus Cansilocic, MMS Bi 7.98 + Jil Belson Group: OH TX\$! 7.0101 CopVolla 11.95 +01 MCAAp 9.7403 Bond Ln 1.505 mSiK8 17.8134 CopVolla m11.76 +34 MUCAA Cp 9.7403 Bond Sn 9.5332 Stribints 6.7707 PSpa 9.53 +.18 MUCA Cp 9.7403 Enterpol ni 6.6144 TXE-83 1 12.9007 PSpa 9.53 +.18 MUEL Cp 8.9001 Enterpol ni 6.6234 TELEB 1 7.8002 Dreyfus Premier: CCATA 12.2505 Gwthn 12.0733 USG-83 1.18002 Dreyfus Premier: CCATA 12.2505 Gwthn 12.0733 USG-83 1.18002 Dreyfus Premier: CCATA 12.76 1.00 Method 12.0733 USG-83 1.28002 CCA Muna 12.4605	A Magrin n 10.68 — 04 COTEP 9.44 — 05 NY Mun 10.19 — 02 WridW 26.18 — 7 Bolon 12.49 — 02 FL TEP 10.17 — 04 ST Boln 9.78 — 01 Japon Fon 12.10 + 1. 65 BueCh 25.89 — 70 GATEAP 10.07 — 06 Smo8Con17.74 — 46 JP Composer 16.21 — 4 B CAIRS N 9.70 — 0.33 GdRbp 16.99 — 27 SmcGen 11.97 — 24 JP 168 9.70 — 0 B CAIRS N 13.50 — 03 IMTEP 10.01 — 03 TE Bond 110.24 — 02 Japin Honouche Composin 11.45 — 03 KYTEAP 10.46 — 03 US Trees n 9.89 — 12 CA TE 11.77 — 0 COMPOSITE 11.77 — 0 C	Intigan 19.20 - 10	Eth/Op or 7.34 - 15 CAT/81 8.08 - 03 G/Secripx 7.48 - 07 Growth 70.41 - 44 Com/81x 12.96 - 42 Growth 9 16.29 - 37 HYPER 8.25 - 0.4 Dw/Ed81 8.82 - 13 PA TF ax 12.76 - 0.6 HYPER 8.25 - 0.4 Dw/Ed81 8.82 - 13 PA TF ax 12.76 - 0.6 HYPER 9.31 - 18 DW/G8 7.44 - 48 Wordpi 13.18 - 0.7 HYPER 9.31 - 18 EU/G8 12.54 - 19 Sentry-Fon 15.14 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.3 PL 7.88 18.70 - 0.7 Sequipm 15.44 - 37 MulFiAp 12.16 - 0.7 Sequipm 15.44 - 37 MulFiAp	Arrier Tr 1394 — 29 SpG-SK x 9.11 — 31 Copact 15.94 — 22 SpG-SK x 9.11 — 31 Copact 15.94 — 22 SpC-SK x 9.11 — 31 Forga p 9.77 — 13 US Grawth x 10.42 — 38 Votus 9.87 — 22 Grawth p 18.57 — 34 Vision Funds: 10.09 — 28 Incomp s. 873 — 36 Grinc x 10.09 — 28
MINB P 971 — 33 Shodow n 9.99 — 35 Unil 8: 11.50 + 30 Cop(5m 15.25 — 32 MinB P 9.11 — 33 Too(5m 16.25 — 31 Columbia Funds — CAMUB P 9.11 — 33 Too(5m 16.25 — 31 Columbia Funds — CAMUB P 9.11 — 33 Too(5m 16.25 — 31 Columbia Funds — CAMUB P 11.64 — 34 MinVa P 9.16 — 34 UMB 8 n 16.5 — 33 Com/Six n 15.40 — 35 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 22 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 22 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 22 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 22 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 22 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 22 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 22 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 22 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 22 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 32 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 32 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 32 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 32 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 32 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 32 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 32 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 32 Gov 8: 11 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 32 GibinVa n 15.46 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 34 MinVa P 9.66 — 34 UMB 8: n 15.98 — 34 MinVa P 9.66	20 Corgest rist 20 - 1.86 LintTE p 10.3000 GiveySinds rist 98 IlAcore 12.3936 Control 30.3582 MITE A p 11.1404 Greec n 12.7309 LintOva p 8.5004 Crysec n 15.9511 MOTEA p 10.3505 Gintel Groupe MATE 11.3206 Destinytin 17.4647 MITEC p 11.1304 Erison p 24.4057 MYTEB 11.6806 Destinytin 28.4775 NCTEAP 9.8804 Gintel on 13.2330 NYTEB 11.4906 Destinytin 28.4732 MYTEB 11.4906 Gintel on 13.2330 NYTEB 11.4906 Divertini 18.1425 STOCIA 8.51 + .07 Divertini 18.1425 STOCIA 8.51 + .07 Divertini 18.1425 STOCIA 9.1427 STOCIA 9.142	Liberty Financial: FGGFB! 9.65 — 21: ONE hint 14.18 - 94 Gfthin: 10.54 — 22 GABB! 13.00 — 39 OVB Funds: Institut, 10.25 — 31 GBBBB! 13.00 — 31 CopAppA pf. 98 — 26 IT FBond 10.11 — 31 GCVB! 10.73 — 31 EmiGrinA n8.64 — 31 US Gav 8.66 — 31 GRSB! 16.72 — 36 GryfSgcA n6.12 — 31 US Gav 8.66 — 31 GRSB! 16.72 — 30 GryfSgcA n6.12 — 31 US GBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	Mulfill p 12.1502	REST p 13.48 - 14 NYTOSF 9.51 - 0.03 Stratic p 8.16 - 12 USGov 8.44 - 0.44 Vista Puntis Bold N 11.04 - 16 Enrick p 12.96 Bond p n 10.22 - 0.10 FEarl 11.47 - 17 CA int 9.22 - 0.10 FEARL 11.43 - 21 CROST 37.00 - 72 Grants 37.04 - 73
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No.	1 Groun 21.4 — 36 Groun 1 — 36 Grown 1 — 36 Grown 1 — 36 Grown 1 — 37	Bodbeth 447 — 91 ORMumb 19.15 — 38 DSCVoil 12.55 — 29 NoTFT 1 446 — 31 Poc8 : 21.89 - 15 DScVoil 12.55 — 29 USGovt p 447 — 92 PA MB 1 10.79 — 95 Eqindx 12.91 — 30 Parcel 12.27 — 27 GvArm n 9.84 — 7 Parcel 12.27 — 27 GvArm n 9.84 — 9.17 — 9.	AGIUSII 4.66 — 172 Vista8 1 7.16 — 23 GFEGITT 10:20 — 27 AUSIII 4.66 — 13 Voy8 1 11.61 — 23 GFEGITT 10:20 — 27 AUSIII 4.66 — 13 Voy8 1 11.61 — 29 GITT 10:20 — 27 GFEGITT 10:20 — 27 AUSIII 4.65 — 13 GORDINES FEIS — 10:30 — 19 GFEGITT 10:20 — 27 GFEGITT 10:20 —	ShiG-VB 9.28 -01 GraStic p 17,22 -27 Toxic-VB 11,22 -03 LA T1 9.07 -05 Toxic-VB 12.15 -07 Mallas 10,00 -04 USGovB 1 8.88 -03 Minchet 10,88 -02 Thermburg Fels Minchet 11,78 -04 InMul 12,75 -04 MO less 9.47 -04 LAGTIn 11,86 -0.01 NotTTP 9,70 -04
Amborotic 1226 — 13 Equity n 10.53 — 30 Composite Grouts: Amborotic 1226 — 13 Becchill 28.02 — 31 Bottick o 11.34 — 16 Duffferin n 9.99 — 01 Bottic F 9.03 — 17 BSE:np0bt 8.96 + 03 GwinAp 12.55 — 34 Dugree Muthadi Esticogran 15.79 — 51 Bottoniced n 9.79 — 18 NW 91A p 14.40 — 58 KYTF n 7.22 — 07 Growthin 12.50 — 37 BondAn 18.45 — 04 TXEXAP 7.33 — 34 KYSAM in 11.67 — 37 DVGAA 18.21 — 27 USGAP 9.77 — 34 EBB1 pinds:	Infliction 1744	FOVOUR 1222 - 31	BOSAN 11.73 —17 Immed 10.86 — COMMUN P18.31 —33 EGGAN 11.73 —27 Numeric 15.57 —45 Colinc\u00e1a 9.88 —0.72 EGGAN 10.55 —32 BosNumO15.75 —46 EmGrap 14.24 —30	1.00
Ambassader inv: inflGrA n 19.77 + .03 LtdMxd x 10.3105 Au/ffix p 39.3446 Bond n 9.2403 Shifburn 9.9901 Conn Mutual: ESC Shirih S SS Shirih G S Shirih G S Shirih M 19.7702 Govl 9.9601 EcgleGrifh 11.15 Grwfth 12.4837 SmColA 11.2427 Grwfth 14.8641 EcgleGrifh 11.15 Income 9.8841 Colon V Classic:	Michael St. 185 - 2.52 Murlinet 10.3402 Grodison McDonale: InvA p IZ.4125 Murlinet 19.8401 Estivation 12.7703 InvB p IZ.4125 InvB p IZ.41	Guing	PriorintES 14.03	CopApp 13:28 —40 Growth 14:27 —24 LA Mun 10:46 —94 LtdTerm 9:43 —02 TotalRet 9:50 —91 Muni 10:00 —50 —71 LtdTerm 9:43 —02 TotalRet 9:50 —91 Muni 10:00 —50 —71 TotalRet 9:50 —91 Muni 10:00 —50 —71 TotalRet 9:50 —91 Muni 10:00 —50 —71 Muni 10:00 —50 Muni 10:00 —50 —71 Muni 10:00 —50 Muni 10:0
infBord n 9.31 — 622 UST16bA n19.714 — 622 TotRet 13.97 — 19 ELLS p 9.24 — 61 InfBbr n 13.15 — 50 Berham Grosse: GG Cos Midt Fels: Govern 9.21 — 62 MitTFBd n 9.13 — 62 CorTFin 10.75 — 10 InfFr n 7.85 — 64 — 62 SmCoGF n13.64 — 63 CorTFin 10.75 — 10 InfFr n 7.85 — 64 MitManp 9.00 — 65 TF Bd n 9.97 — 64 CorTFin 19.90 — 66 InfEq n 10.67 — 64 CorTFin 10.75 — 10 InfEq n 10.67 — 64 CorTFin 10.75 — 10 CorTFIN 10.75 —	1	BraHiYd 8.99 - 04 HincA 6.06 - 02 DiscFdp 35.16 - 89	Growth p 11.95 -1.0 RS1 Tross: 52 -32 Small Barney A: CmpAhA 13.62 -22 Income p 13.26 -38 Core 3.44 -57 IncGroA p 12.65 -22	AdiGVA 9.75 —81 Grinch 14.58 —94 Copgre 11.63 —27 Integun 20.73 —85 CATFAP 9.83 —94 Instead 16.52 — 94 CATFA 9.87 —04 Instead 17.72 —22
Graffi 1248 —31 Extract 1046 —05 Maris 7.37 —32 MALIST 13.5 —37 Extract 1046 —05 Maris 7.37 —32 MALIST 13.5 —31 Integral 9.32 —31 Graffi 10.55 —35 SmGreyn 12.71 —29 Millat 12.55 —37 Integral 9.32 —31 Graffi 13.30 + 96 SmGreyn 12.71 —29 Malist 12.55 —37 Integral 9.32 —36 Graffi 13.30 + 96 SmGreyn 12.71 —29 Malist 12.55 —37 Integral 9.32 —37 Malist 12.55 —37 Mali		Incorne x 8.10 —95 imfEGA p 10.95 —31 EqincA xx 9.70 —24 Musi 8.08 —05 imfEGA p 10.95 —31 EqincA xx 9.70 —24 Musi 8.08 —05 imfEGA p 10.92 —31 EqincA xx 9.40 —24 Musi 8.08 —15 imfEGA p 10.95 —31 EqincA xx 9.70 —24 Equation 10.23 —15 MagAsta 8.46 —13 Giobein p 10.08 —25 Emergra 14.07 —34 MagAsta 8.46 —14 Giobein 7.75 —44 Equation 10.95 —35 MagAsta 8.47 —14 Giobein 7.75 —44 Equation 10.95 +0.21 TyExa 7.72 —02 Edd p 5.20 +54 Exclinin 10.95 +0.21 TyExa 7.72 —02 Edd p 5.20 +54 Exclinin 10.95 +0.21 TyExa 7.72 —02 Hylda 13.41 —02 Egistin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Egistin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin 10.21 +0.04 Madwatta 10.45 —01 Hylda 13.41 —02 Exclinin	Figure 1 22.04 - 55 EmiGr 35.20 - 38 IncRetA 9.44 Part May 9 97 - 703 IniBid 25.42 - 702 IniBid 25.42 IniBid 25.42	Gvinct 8.87 - 02 Granc 21.86 - 55
Patrico 9-39 - 165 STTress n 9-17 - 01 Egidox 2 727 - 51 A 271 Ft 10.14 - 00 Interfer x 9.8 - 05 Torigys n 9-30 - 01 Gibba n 9-0 ARTIST 10.14 - 00 Ameri Advanti Instit. Torigodi n 9-10 - 19 Gregan 9-15 - 28 Collumi 1 9.3 - 10 Ameri Advanti Instit. Torigodi n 9-10 - 19 Gregan 9-15 - 28 Collumi 1 9.3 - 10 Ameri Advanti Instituti n 9-10 Ameri Advanti n 9-10	3 Unite n 43.97 22 Guorge x 9.34 15 Bond 10.61 10 Refires 8.27 13 Volue n 43.97 22 Guorge x 9.54 25 Bond 10.61 10 Refires 8.27 13 Wright 11.92 0.9 From the Group; CopApp n 16.57 29 SiGovA x 8.02 0.9	HT 365 n 14.7308 Gove 9.1903 InvGrAp 10.2105 IntEn 1 14.7308 Gove 9.1903 InvGrAp 10.2105 IntEn 1 10.03 + .04 IntGov p 10.1603 LTGovAp10.4103 LtGovFin 10.23 + .01 OH TF 1 11.4403 LTGovAp10.4103 ASIGN PROPERTY 1.7505 ASIGN PROPERT	Priesr Address:	GSP 9.76 —.01 AZ TF x 10.39 —.04
Gracian 1296 — 22 Torzinian 31.88 + 03 Inigran 1296 — 22 CTTK † 977 — 22 Inigran 1279 — 23 Torzinian 31.88 + 03 Inigran 1287 and 23 Equity 10.04 — 16 Inigran 1279 — 23 Inigran 1279 — 23 Inigran 1279 — 24 Inigran 1279 — 25 Inigran 1279 — 27 Inigran 27 Inigran 1279 — 27 Inigran 1279	Second S	SelEn 1/15 —33 Monating 1921 —4/ Mylinca 13.15 —011 SelEn 9,87 +01 Monating Founds: NYTAS https://www.nytas.html.nytas.h	PIPT_TIPY-32 12 Sieris(n 11.16 12 Advs: A p 24.46 52	TurnerGE 012:1229
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NASDAQ NATIONAL MARKET (Continued) -11 e 2.4 Last Week's Markets All Hyures are as of clase of trading Friday Money Rates NOTICE OF REDEMPTION Stock Indexes U.S.\$150,000,000 Sept, 23 Sept. 1 United States United States Sept. 23 Seal, 1 Ch'se 4.00 73₄ Retractable Notes Due October 30, 1996 3733.36 — 2.58 % 177.23 — 0.19 % 1556.35 — 4.27 % 3631.75 176.90 1499.41 426.55 459.67 Discount rate Prime rate CITICORPO

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September 26 1994, London By: Citibank, N.A. Fiscal Agent

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NOTICE IS HEREBY GIVEN THAT Citicarp has elected to redeem on October 31, 1994 (the "Redemption Date") all of its outstanding Retroctable Notes Due October 30, 1996 (the "Notes") at a redemption price equal to the principal amount thereof plus interest accrued to the Redemption Date. On and after the Redemption Date, interest on the

occured to the Redemption Date. On and other the redemption Date, interest on the Notes will cease to occure.

The Notes are to be redeemed at the main offices of Cribank, N.A. in London, Shussels. Paris, Frankfurt am Main, Amsterdam, at the main office of Cribank (Switzerland) in Zurrich, and also at the main office of Cristiania Bank og Kredit Kasse in Oslo
Payments on the Notes will be made upon presentation, and sumender of the Note together with all interest coupons maturing subsequent to said date at the critices set tarth in the preceding paragraph on the Redemption Date.

Coupons due October 31, 1994, should be detached and presented for payment in the saud manner.

CITIBANCO

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The Week Ahead: World Economic Calendar, Sept. 26 - Sept. 30

Asia-Pacific

call and Management Issues of Joint Ven-tures in Indonesia." Through Tuesday, Hilton Hotel. rickings to hold rechnical briefing on the trading and settlement procedures for their shares once they delet from the Hong Kong stock exchange. Hong Kong The Vietnam Business As-

sociation to hold a panel discussion on the subject "Project Finance, What is really happening in Vietnam." really happening in Vietnam."
Wellington August New Zealand mer-chandise trade.

• Sept. 28 Hong Kong Seminar on

= sept 28 Heng Kong Seminar on Introduction to Chinese tax planning or-genized by the American Chamber of Commerce in Hong Kong. Hong Kong ABC Radio Partners Inter-national Chief Executive Peter Stromquist and Hong Kong Commercial Broadcast-ing Director of Plannion & Stream ing Director of Planning & Strategy Matt Hacket talk to an American Chamber of Hackett talk to an American Chamber of Commerce in Hong Kong lunch about Kuala Lumpur Lon Land Bhd. to hold

special shareholders meeting to discuss proposed land acquisition. Selanger Darul Ehash, Malayela-

proposed isru acquismon.

• Sept. 29 Sydney August current account, Forecast Narrow to 1.55 billion Australian dollars from 1.94 billion in July, Hong Kong August provisional merchandise trade.

Hong Kong Mkil Corp. and its associate Chesterfield noted annual meetings. Mkil's shares have been suspended from trad-ing for three months because regulators. are concerned that investors have not

w Sept. 30 Tokyo Tokyo September consumer price index and nationwide Au-

Europe

 Expected this week Frankfurt-September cost of living. Forecast: Up 0.1 percent in month, up 3.0 percent in

• Sept. 26 trial orders.

Copenhagen Têle Danmark press con-ference to announce news of internation-

Banque SA, Inchcape.

• Sept. 27 Stockholm August pro-Societé Generale, Lafarge Coppee.

Sapt. 28 Pusaels September consumer price index. Forecast: No change in month, up 2.6 percent in year. Helsinki August current account.

Zurich September consumer prices.
Forecast: Up 0.1 percent in month, up 0.7

percent in year. Earnings expected Beazer Homes, Jef-lerson Smurfit. • Sept. 29 Frankfurt German

Earnings expected Forte, Redland, Par-bes, Flat.

Paris August unemployment. Forecast: 12.5 percent in month.

press conference marking the sirrine's 75th anniversary.



Americas

• Sept. 26 Washington The National Association of Resitors releases existing home sales for August.

Washington Vice President Al Gore delivers keynote address at Communications/Week magazine's two-day conference on computers, software and ence on computers, software and communications, leaturing AT&T Corp.'s CEO Robart Allen, TCI International Inc.'s CEO John Malone, Intel Corp.'s Andrew Grove and FCC Chairman Reed Hundt, Calgary, Alberta Canadian Energy Research Institute hosts 13th annual international oil and gas markets conference. Washington The Natural Gas Supply Association holds a luncheon to discuss transactional oil and gas transactions to discuss transactions and transactions are a second and transactions and transactions and transactions and transactions and transactions and transactions are a second and transactions and transactions and transactions are a second and transactions and transactions and transactions are a second and transactions and transactions are a second and transactions and transactions are a second and transa

Tampa, Florida The results of a vote by creditors of Walter Industries Inc. on two

bankruptcy plans expected to be re-leased. If Apollo Advisors LP's plan wins, bondholders could take control of the San Jeak, California Intollioria's Stow-art Alsop, Ethernat Inventor Robert Met-calle and Oracle Systems Corp.'s Andrew Laursen Speak at Invend-day control the Information highway sponsored by Hewlett-Packard Co., Sun Microsystems

nc. and others. Sept. 27 New York The Conference

Washington Federal Open Market Com-mittee meeting. Association of Canada apprepriate a conference on the issues and opportunities taking the Information Industry.

Washington The Center for Strategic and International Studies hosts a conference on U.S.-China business cooperation.

e Sept. 28 Washington August dura ble goods orders. New York Bankruptcy court to hold con-firmation nearing on JWP Inc.'s proposed

reorganization plan. • Sept. 29 Wasi

Chicago The Chicago National Associatracego i ne chicago nazional associa-tion of Purchasing Management releases its indexes for September. Ann Arbor, Michigan The University of Michigan releases its revised consumer settiment index for September. Washington Deadline for U.S. to deter-mine whether to take possible puretive measures against Japan under the so-relet Super-SM trade manufations. measures against Japan under called Super-301 trade regulation

INTRODUCTION OF SYNCHRONOUS DIGITAL HIERARCHY EQUIPMENT IN HUNGARY

Prequalification Notice to Prospective Suppliers

The Hungarian Telecommunications Co. Ltd. [HTC] is to introduce Synchronous Digital Hierarchy (SDH) equipment families in the Hungarian telecommunications network. Suppliers will be selected from among qualified bidders invited by HTC to participate in 2 tenders planned to be issued in the near

The tenders will cover two projects, to be implemented in 1995 and 1996.

- SDH Development of the Budapest Trunk Network (with approximately 30 nodes), and

SDH Development of the Hungarian Backbone Network (with approximately 50 nodes, and all major international links

Both projects will cover complete, integrated SDH networks, consisting of

cross-connect equipment.

- point-to-point transmission links, and

self healing optical rings.

Suppliers' responsibilities will include the

implementation design, manufacture, supply, delivery, installation, commissioning, and system integration of the equipment of the SDH network

and will exclude the existing infrastructure, such as installation of optical cables, microwave towers, power supplies, etc.

At network nodes the following equipment shall be installed for the individual projects:

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lexers
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Original equipment manufacturers who wish to be considered for prequalification for any of the above explained tenders are invited to submit a capability statement, addressing the questions below. In case of

- a main contractor with sub-contractors, or a consortium.

all companies (including sub-contractors or consortium members) shall submit the applicable statements and evidences according to their planned responsibilities in frame of the project targeted.

Applicants shall acknowledge that in case of successful qualification they are supposed to participate in the tender with the same sub-contractors or consortium members qualified by HTC for the relevant project. Although at the time of tendering bidders will be allowed to make minor changes concerning their actual partners and their responsibilities, HTC shall have the right to refuse any sub-supplier, subcontractor or consortium member not approved in the course of the prequalification.

Documentary Evidences	Minimum Criteria
Company profile including type and size of the company, and consolidated financial statements (balance sheets and statements of income) for the last 3 years.	minimum annual turnover: in case of a single supplier, main contractor or consortium leader: an equivalent of 50 million USS in case of equipment sub-suppliers or consortium members: an equivalent of 15 million USS in case of sub-contractors (for installation, etc.) an equivalent of 5 million USS
Details of at least 3 similar SDH projects completed or currently being implemented	 each project shall be described, and reference letters signed by the customers shall be attached (with a certified English translation, if necessary) each project value shall be at least 3 million USS. the value of the bidder's own SDH equipment shall represent at least 1.0 million USS for each project (in case of other companies participating under the bidder's control) all companies involved shall submit a statement that they are capable of arranging a visit by HTC to any site of the documented reference projects
List of telecommunications authorities which have already approved the offered SDH equipment	approval certificates from at least 2 (two) authorities for each equipment category shall be submitted, with certified English translation, if necessary
List of other vendors, if any, whose devices the bidder (as a main contractor or the leading party of a consortium) intends to integrate with his own equipment for the relevant tender	 authorisation by the vendors, attachment of the vendors' capability statement in response to all the applicable requirements stipulated in this table a realistic allocation of responsibilities among the partners
Description of the project management methods and tools	demonstrated ability to efficiently and reasonably manage, monitor and administer all activities, including the control of sub-contractors or consortium members.

Technical brochures

Description of the current network management system applied for the SDH equipment

a declaration stating that as soon as the relevant international standards are set up, the company will develop a centralised network management system, capable of interworking with other SDH equipment

a well thought out development strategy, targeting totally

- compliance with the relevant European standards and

approval by the Hungarian Telecommunications Inspectorate, or willingness to obtain the same in case of

Development history and planned future developments of the SDH equipment

own manufacture of all equipment in the near future. Only those companies and/or groups of companies will be qualified to participate in the coming tender who have

met the above minimum criteria. Separate prequalification materials shall be submitted for the two tenders. Prequalification materials shall be received, before 4:00 p.m. on 18th October 1994, at the following address: Inteltrade Co. Ltd, Mr. Zoltán Kecskés, Deputy Head of Procurement Dept. Budapest, Medve u. 25-29, 1027 Hungary Tel.: +361-201-0045.,-0054 - Fax: +361-201-0017, -0008

recommendations

contract award

Prequalification materials shall be submitted in 5 (tive) copies in English for each of the targeted projects. In case of reference letters or other attachments written in other languages a certified English translation shall also be

SPORTS

Miracle Pass Cinches Victory For Colorado

Kordell Stewart put himself in a class with Doug Flutie, hitting Michael Westbrook with a 64-yard touchdown pass after a cluster of Michigan defenders and Colorado players tipped it into Westbrook's outstretched

It was the final play of the game in Ann Arbor, Michigan, on Saturday, and it gave the

COLLEGE FOOTBALL

Buffaloes, seventh in the Associated Press college football rankings. a 27-26 upset of fourth-ranked Michigan. "I figured it's 50-50," Stewart

said. "I just heaved it up." Not since Flutie's incredible last-second 48-yard pass that 27: Ki-Jana Carter ran for three lifted Boston College over Mi-ami in 1984 has a Division I college game been decided in such dramatic fashion.

"I haven't seen it, but that's sweet," Flutie said Saturday night after his four touchdown passes helped Calgary beat Sacramento, 39-25, in the Canadian Football League. "I'll have to go and see all the replays

Leading Colorado 26-14. Michigan looked furmly in con-trol. But Colorado scored twice in the final 2:16 for the victory.

First, Rashaan Salaam's oneyard touchdown run made it 26-21. The Buffaloes tried an onside kick that Michigan recovered, but Colorado held the Wolverines and regained possession at its own 15 with 14 seconds left.

Then, with 6 seconds remaining and Colorado on its own 36, Stewart dropped back and heaved a long pass toward the Michigan goal line. Westbrook grabbed it over the shoulder of a Michigan defender.

No. 2 Nebraska 70, Pacific 21: Brook Berringer, the backup quarterback, threw for three

braska. Taking over after Tom-mie Frazier led the Comhuskers' first two scoring drives, Ber-ringer ran six yards for a touchdown, then threw scoring passes of 15, 46 and 18 yards. No. 3 Florida State 31, North

Carolina 18: In Tallahassee, Florida, Danny Kanell threw three touchdown passes and Warrick Dunn rushed for 121 yards as Florida State won its 20th straight Atlantic Coast Conference game. The Seminoles led, 31-7, mid-

way through the third quarter. The Tar Heels narrowed the gap in the fourth period, but lost their chance to get closer when they lost the ball on a contested fumble call.
No. 5 Penn State 55, Rutgers

touchdowns and Kerry Collins threw for two more in State College, Pennsylvania. Carter had 122 yards on 15 carries, and Collins was 14-of-16 for 328 yards. Rutgers gave the Nittany Li-

ons a close game after three blowouts, pulling within one touchdown late in the first half. No. 17 Washington 38, No. 6 Miami 20: Miami led, 14-3, at halftime before the visiting Huskies scored on Damon Huard's 75-yard screen pass to Richard Thomas, Russell Hairston's 34-

yard interception return and a fumble recovery in the first five minutes of the second half. The loss snapped Miami's NCAA record 58-game winning streak at the Orange Bowl. No. 8 Arizona 34, Stanford

10: In Stanford, California, the Wildcats sacked Stanford's quarterback, Steve Stenstrom. six times and forced two interceptions and a fumble that led to 21 points. Ontiwaun Carter ran for touchdowns of 10 and 3 yards for Arizona.

No. 9 Notre Dame 39, Purdue 21: In South Bend, Indiana, Randy Kinder and Ray Zellers touchdowns and ran for another against Pacific in Lincoln, Ne-



Michigan's Tyrone Wheatley (6) ran for a touchdown, but Colorado prevailed, 27-26.

vards and scored twice, and Zellers added 156 yards, including a 62-yard touchdown run. No. 10 Auburn 38, East Ten-

nessee State 0: In Auburn, Alabama, the Tigers extended the longest Division I winning streak to 15 games at the expense of the Division I-AA

No. 11 Alabama 20, Tulane 10: Tulane held the Crimson Tide without a touchdown until late in the third quarter, when Brian Steger scored on a 16yard to break'a 10-10 tie in Birmingham, Alabama.

No. 12 Texas A&M 41, Southern Mississippi 17: In College Station, Texas, Leeland McElroy returned the opening kickoff 100 yards, and the Aggies won their 22d consecutive game at Kyle Field, now the longest home streak.

Lovell Pinkney returned from a two-game suspension and made a spectacular touchdown catch to ignite Texas over TCU.

No. 16 Wisconsin 62, No. 25 Indiana 13: Darrell Bevell opened the game 13-of-13 and Wisconsin, playing at home, scored on its first seven posses-

No. 22 Washington State 21, No. 18 UCLA 0: In Pasadena, the Cougars shut out UCLA for only the second time in 23 years, limiting the Bruins to 226 yards. UCLA entered the game averaging 432.3 on offense.

No. 19 Southern California 37, Baylor 27: In Los Angeles. Shawn Walters ran for 207 yards and scored three touchdowns for Southern Cal. Rob Johnson I-AA Catamounts.

No. 15 Texas 34, Texas passed for 364 yards and one Christian 18: In Fort Worth, touchdown for the Trojans. No. 20 Ohio State 52, Houston 0: The Buckeyes, playing at home in Columbus, blanked Houston for the Cougars' second consecutive shutout. The

Cougars have scored 20 points

in four losses this season while

giving up 135 points.

Mississippi State 24, No. 23

Tennessee 21: Eric Moulds caught three passes from Derrick Taite during the winning drive, including a leaping 22yard grab on fourth-and-12 in

Starkville, Mississippi. No. 24 North Carolina State 38. Western Carolina 13: In Raleigh, North Carolina, Brian Fitzgerald rushed for a careerhigh 114 yards and two firstquarter touchdowns for the Wolfpack, to defeat the Division

Rams Stun Chiefs, 16-0, Ailing Montana Subdued

The Kansas City Chiefs are

the best team in the National Football League, Coach Chuck Knox had said. But with Willie Anderson scoring on a wild 72yard play and an under-theweather Joe Montana playing his worst game of the season, the two-touchdown underdogs Los Angeles Rams stunned the previously unbeaten Chiefs, 16-0. on Sunday on their home

It was the Chiefs' first shutout at home since the same team

NFL ROUNDUP

beat them by the same score nine years earlier. Montana, who was fighting a viral infection, hit 18 of 37 passes for 175 yards and threw three interceptions.

Jerome Bettis picked up 132 yards on 35 carries, going over 100 yards for the third straight

The Rams got rolling on their first possession behind second-team quarterback Chris Chandler, who was subbing for an injured Chris Miller.

Tony Zendejas hit a 29-yard field goal for a 3-0 lead, and a few minutes later Louis Aguiar's 45-yard punt put the Rams on

their own 28. Chandler dropped back and fired over the middle to Jessie Hester, but the pass was high

and Hester leaped and tipped the ball higher. It flew squarely into Anderson's arms at the 45, and he romped untouched for a 72-yard touchdown play, silencing the sellout crowd and giving the Rams an improbable 10-0 lead

with more than three minutes

left in the first quarter. Less than a minute later Montana, under pressure all day, ap-parently tried to throw the ball away. But Roman Phifer made a diving interception as he fell out of bounds at the Kansas City 20. Anderson went 11 yards on an end-around, but Chandler missed twice from the 5 and Zendejas came in to kick a 23yarder with 1:17 still to go in the

Rams feeling red-faced over terrible clock management. Driving from their own 29, they had a second and goal from the Chiefs 2 with :09 left. But Chandler was sacked on third down, and with :05 left, the Rams tried a TD pass instead of

a field goals and got nothing. Falcons 27, Redskins 20: The Atlanta Falcons capitalized on two interceptions and a fumble by John Friesz to score 20 unanswered points in the second half. Heath Shuler led Washington to a touchdown in the fourth quarter, but his last-ditch bomb was picked off with one second left and Atlanta

at RFK Stadium. The game changed early in the second half as Atlanta turned a 13-7 halftime deficit into a 27-13 lead. Jeff George

won for the first time in 11 tries

was 22-of-35 for 270 yards and two touchdowns, helping the Falcons overcome six sacks and seven punts. Browns 21, Colts 14: In Indianapolis, Vinny Testaverde

threw for three touchdowns, including a 57-yarder to Eric Metcalf and a 65-yarder to Lerov Hoard.

Testaverde hit 16 of 28 passes for 257 vards and was sacked

The half ended with the only once. He did it facing a ams feeling red-faced over Colts defense that was ranked 25th against the pass and nextto-last overall.

Vikings 38, Dolphins 35: Warren Moon's Minnesota Vikings blew a 28-0 lead but recovered to go ahead on Scottie Graham's 3-yard touchdown

run with 7:25 to play. Moon, in his first season with the Vikings, was the quarter back who helped the Houston Oilers take a 35-3 lead over the Buffalo Bills in the playoffs after the 1992 season. But Moon and the Oilers did nothing the rest of the game and Buffalo rallied for a 41-38 victory.

Packers 30, Buccaneers 3: Brett Favre was 30-of-39 for 306 yards and three touchdowns and Chris Jacke kicked three field goals as Green Bay routed Tampa Bay, spoiling the return of ex-Packers Jackie Harris, Vince Workman and Charles Wilson.

Sixty former Green Bay players, including four Hall of Famers and six who played on the 1944 championship team, were at Lambeau Field for the reunion. They got to see the Packers, who had scored just 37 points all season, finally find their offensive touch.

Next: NBA Labor Problems

CHICAGO - The National Basketball Association, a leader in marketing and development strategies for a decade, may follow the leads of Major League Baseball and the National Hockey League by having work-stopping labor problems this season.

NBA players have been without a collective-bargaining agreement since the end of last season, and no talks have been held. The season is scheduled to begin on Nov. 4.

"Our plan is to open training camps, but if ultimately the union won't talk to you, it's tough to rule out any possibilities you might have to consider down the road." Deputy Commissioner Russ Granik was quoted as saying by The Chicago

The Tribune, quoting a source, said the league was considering a lockout, "probably around Thanksgiving, if no agreement is reached by then." Thanksgiving is the last Thursday

NASDAQ NATIONAL MARKET

Consolidated trading for week ended Friday, Sept. 23. (Continued) Stocks Dry Vid 100s High Low Ose Oree Porter Park							
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EMEN!

efs. 16.0 MICROELECTRONICS



Europe's Driving Force ADVANCED CHIPS PLAY IMPORTANT INDUSTRIAL ROLE

Chips are the essential element in a wide range of products, from the computers of industry to the biosensors of medical technology.

growth in European industry starts and ends with microelectronics. In 1993, the Continent's production of microelectronics components amounted to a reported \$15.4 billion.

The European producers' 25 percent rate of growth allowed them to maintain their 20 percent overall share of the explosively expanding world market, according to Der Spiegel mag-

The Europeans' growth was strongest in sales of such high-end, high-margin items as megabit memory chips and ASICs (application specific integrated circuits), which meant that profits kept pace with turnover growth.

Advanced chips play an increasingly important role in the Continent's leading products: telecommunication devices, consumer equipment, automobiles, production facilities and environmental protection systems, which feature Europe's fastest rates of turnover and market share growth.

Telecommunications is on course to become the world's largest industry and the world's largest consumer of chips by 1998. With a 30 percent share, Europe is the world's largest producer of telecommunica-

I oday, any story about Microelectronics now ac- vices has also been rising croelectronics in a Eurocount for 12.6 percent of the and now stands at 33 percent total value of the average of total product value. telecommunication device The growing consumption of chips by these leadingproduced in Europe, up 25 edge sectors will have direct percent over three years.

> More cordless telephones This rise has been caused by the proliferation of such advanced items as mobile telecommunication systems. Europe's production of cordless and cellular telephones has been rising at an annual rate of 60 percent. The amount of microelectronics going into these de-

consequences for Europe's microelectronics sector. Sales by Europe's chip makers are forecast to rise between 50 percent and 65 per-

cent over the next few years. Europe's automobile, croelectronics are incorpochemical and steel-making industries are also very much part of this rush into microelectronics. In 1994, the average amount of mi-

pean-made car was 200 percent more than it was four years ago, and the projection for 1997 is for another 33 percent increase.

Close working relationship The statistics tell a clear and compelling story. One item they do not detail, however, is the change in the way mirated into products.

"Today," says Jean-Philippe Dauvin, chairman of the World Semiconductor Trade Statistics organiza-

tion, "Europe's chip manufacturers design and produce with the particular needs of Europe's industrial companies in mind. In turn, these chip manufacturers are involved in Europe's industrial planning process from the

This hand-in-hand working relationship is a far cry from the situation a decade ago. In those days, any story about European industrial growth would have mentioned microelectronics in

Continued on page 18

RESEARCH: ACADEMIC AND MARKETABLE

Universities and nonindustrial organizations play a key role in experimenting with new processes.

Kesearch and development in microelectronics is conducted both by manufacturers (strongly focused on marketable end-product applications) and by universities and institutes sponsored by the European Union (favoring basic research, but also targeting the needs of small businesses with specific requirements).

The strategy of a company like Siemens AG reflects this general trend. "R&D in our company is very much oriented toward mainstream technology," says Hartwig Bierhenke, deputy director of Microelectronics Technology Research at Siemens Corporate R&D. "Each step forward is a process of evolution, not of revolution. Advances in technology have to he related to the last generation of research and develop-

Mr. Bierhenke adds: "The semiconductor industry has to assume responsibility for progress in mainstream technology architecture because usually universities and other nonprofit organizations do not possess the resources to produce chips in volume." Nonetheless, the nonindustrial research organizations have a key role to play in experimenting with altertion devices and systems. native chip production processes. They can also work at the

front-end of physical principles, on simulation and on device physics," says Mr. Bierhenke.

The institutes can also fill a gap for small businesses. Lacking their own microelectronics resources, they need help in developing new working tools that require microelectronics. Funding for microelectronics research in industry mostly

comes from internal sources, but it also comes from European and national programs like JESSI, ESPRIT and so on. But at Siemens, we accept outside funding only for topics that are positioned in our mainstream technology and only where we can identify an application. After all, we are a profit-making organization," says Mr. Bierhenke.

He stresses that at Siemens, as at other microelectronics manufacturers, R&D today is increasingly oriented toward marketable applications. That is particularly true for semi-conductors, he says, "where we have to look at the immediate potential use. Our priorities are the broadest range of integrated circuits for telecoms, computer, medical and consumer applications. With quantum field effect devices, for example, we are dealing with products that will be marketable after the year 2000," Jack M. Gee

Creating moré coopération

Technology in everyday life.

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Building competitive expense .

Fixing a pattern for the Continent's place in the future.

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The European dimension - Briefs - Alliances .

Views from the boardroom.

The Future in Focus with Europe in Mind

It was not so long ago that Europe had been written off. The Old World was outdated. The future seemed to be happening elsewhere.

We have always believed in Europe. Europe will emerge as a winner against international competition if it recalls its strengths and accepts this challenge with vision and

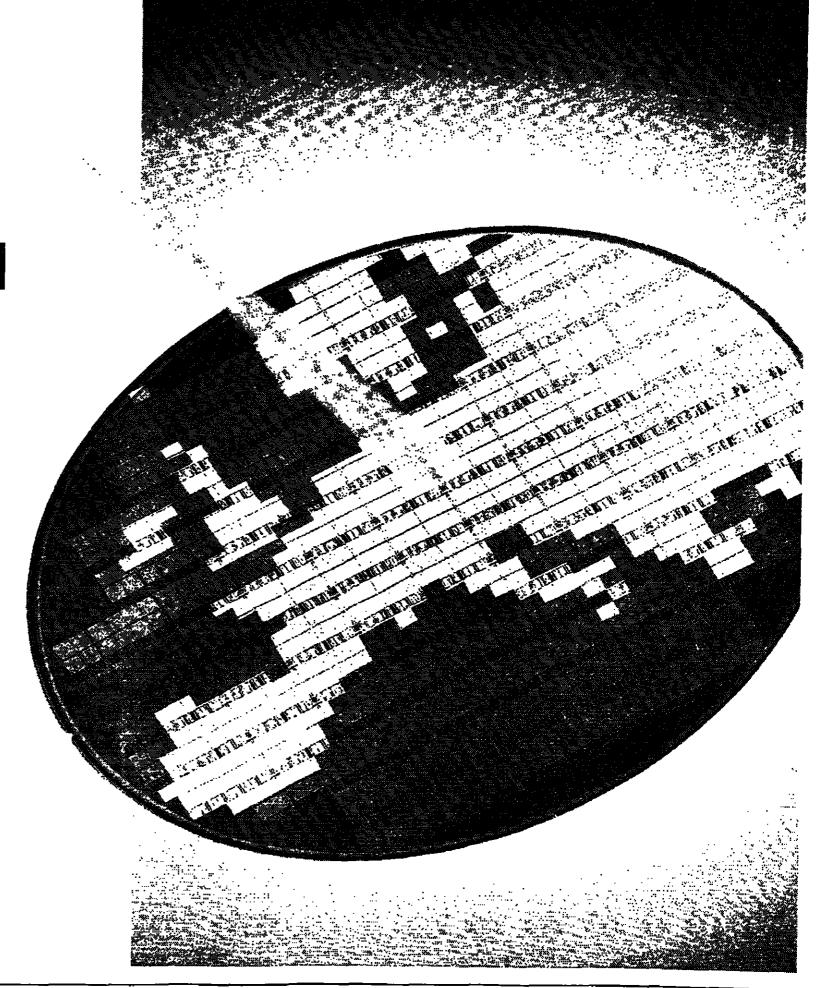
From this conviction our new Microelectronics Center in Dresden has come into being - an integrated development and production facility e.g. for

64- and 256 Mbit-DRAMs.

With the completion of this project - today the first one of its kind in Europe - we will exceed current boundaries in technology and in production, in cooperation with our partners, our suppliers and

customers, not to mention our financial commitment. This is a unique challenge, and our objective is a major one: to guarantee the supply of advanced memory- and logic ICs - from Europe for Europe well into the next millenium. And, just as important, thereby safeguarding a piece of the future for Europe.

Global PartnerChip for Systems on Silicon.



CREATING MORE COOPERATION IN EUROPE

Electronies



JESSI's objective has always been ambitious: to es- company numbers has been tablish and intensify the synergy between Europe's vari-

ous microelectronics producers. While working to- active projects and 1,300 ward this goal through the implementation of common strategies, it has generated advances in microelectronic manufacturing and equipment technologies, and user applications and interfaces. JESSI has attracted a

growing amount of corporate support. Currently, some 190 European and Europe-based companies and research institutes are providing JESSI's projects with personnel, research capacities and financial resources, all on a voluntary basis. This is 20 more than in 1993 and 120 more than in 1990, the first full year of operations for JESSI. In a display of program end.

momentum, this increase in matched by that of JESSI's projects themselves. At the end of 1990, JESSI had 22 man-years had been devoted to them during the year. By the end of 1994, the comparable figures will be 72 projects and 3.100 man-years.

Record of results

About 190 companies and research institutions run more than 70 projects.

The bottom line on any joint program is not the number of its participants and activities, however, but its results. This is where JESSI has especially distinguished itself. Nearly 90 percent of its project groups have achieved their objectives. They are now pursuing follow-up and spin-off technologies in the time remaining until December 31, 1996, when the project will come to its official



Heinz Hagmeister, chairman of the JESSI board.

Each month, these groups produce another spate of in-novations bearing such names as "high precision optical wafer stepper." com-mon frames for CAE applications," "advanced thin film measurement systems for quality control," "multiple source 0.5 micron CMOS logic processes," and "automatic mixed signal VLSI testers." Nearly all of these have been quickly incorporated into standard corporate environments.

Radical perception change All of these achievements, in turn, have emanated from JESSI's first and most important accomplishment. Under its auspices, for the first time. Europe's microelectronics industry came together and took stock of it-

self as an entity. This took place in the late 1980s. As JESSI Chairman Heinz Hagmeister remembers, it helped bring about a radical change in the industry's self-perception and operating procedures.

"Before European cooperation in multipartner projects such as ESPRIT got off the floor, the Continent's microelectronics companies

were well aware of the threats from without, from their rapidly developing competitors in Japan and the United States," says Mr. Hagmeister, who became the organization's chairman in 1993, capping a 35-year-long career in the semiconductor business. "They were not aware of their strengths from within, of the collective breadth and depth of Europe's microelectronic expertise - at least not until they all sat down together and started exchanging find-ings and plans. And this ex-ploration got an extra dimension when the JESSI process began.

Agenda for action

Issuing from this initial period of consultation was a 1.000 page agenda for technological action in Europe's semiconductor sector, published as JESSI's "Green Book." In addition to financial support supplied by the companies themselves. funding for the implementation of this agenda came from the European Union and the governments of Germany, France and other countries, using the transna-tional EUREKA research framework. JESSI became EUREKA project 127.

The real benefits to Europe's microelectronic manufacturers started manifesting themselves once the program partners got down to work in their laboratories and development centers.

It proved to be a highly productive entente. "Before JESSI. Siemens. SGS-Thomson, Philips and JES-SI's other companies, as befits competitors, kept jealously guarded innovations and secrets from each othsub-systems, but until excessing their section patiently accepted master system to which sits it is the control in sub-systems could be linked.

Now JESSI is contributing to the diseasonate of an integrated control unit for safety critical sports shows that will give the EU automobile spherey a "hat because that will give the EU automobile spherey a "hat because a designers to link hundreds of points and simultaneously manage everything from the selicie's headights and tall lights to its time passage and engine emissions. emissions.

The position of the European industry to suite electronics is strong, with four European among the world's top 10. JESSEs strategies of consolidate this leadership position. With state the micro controller, using 0.7 micros statement 1991. Today's version uses 0.5 micros the third the project sime to ministrate its still further; will micros technology, by 1996.

Cars are getting special was batter Microchips routinely control districts

anti-sidd braking, engine management a sub-systems, but until recently, these was

er," Mr. Hagmeister says. first in Europe, at its JESSI pertant difference."

'Their new day-to-day working contacts have not only generated the synergies and developments making JESSI a success, but have also engendered a new atmosphere of trust and an appreciation of the sometime competitor's capabilities."

micron technology, by 1996.

Role model in Europe
"Among the results of all this," says Hans R. Meyer, JESSI's office director, "have been a slew of intra-European alliances, technology partnerships and supplier-purchaser arrangements. Today, when a European chip-manufacturer is looking for a partner, it looks

partners, and that's an im-

JESSI's success has made it something of a role model for other European programs, says Guy Dumas, the organization's vice chairman. "JESSI is sort of a mini-EU," he says. " It's a perfect democracy. Decision making is by consensus. Despite this lack of centralized authority, the program is progressing well, and scientists and executives from so many different national and corporate cultures are working so efficiently together. which bodes well for other organizations of this scope.

VIEWS FROM THE BOARDROOM

Pasquale Pistorio is CEO of SGS Thomson Microelectronics.

society can exist without controlled access to an advanced electronics industry. And an advanced electronics industry cannot exist without controlled access to an advanced semiconductor in- SI in the entire microelecdustry.

Innovation is a common priority in Europe. JESSI addresses that need. JESSI has produced results that search whose benefits will have been immediately not be limited to the comperceived. These results are so outstanding that program. there cannot be any debate about JESSI's success.

JESSI is not a cure-all remedy. It plays an essen-

ing know-how and creating confidence between partners. However, a single Japanese company has been spending at least 20 percent more on semiconductor research than JEStronics sector. Through public support, JESSI helps European companies carry out costly, highrisk, collaborative repanies taking part in the

With the enormous increase in R&D costs and investment needed for competitive industrial protial role in pulling together duction, control of micro-

No advanced industrial European resources, shar- electronics is beyond the reach of most individual companies in this sector. We must persevere in creating strategic alliances. preferably, but not exclusively with European partners. Horizontal alliances between semiconductor manufacturers allow resources to be used more efficiently and provide economies of scale.

> To realize semiconductors for new and complex systems calls for a completely new way of looking at the design of semiconductor devices. To achieve this, we have to learn to work alongside our customers. We have to go beyond the tradition-

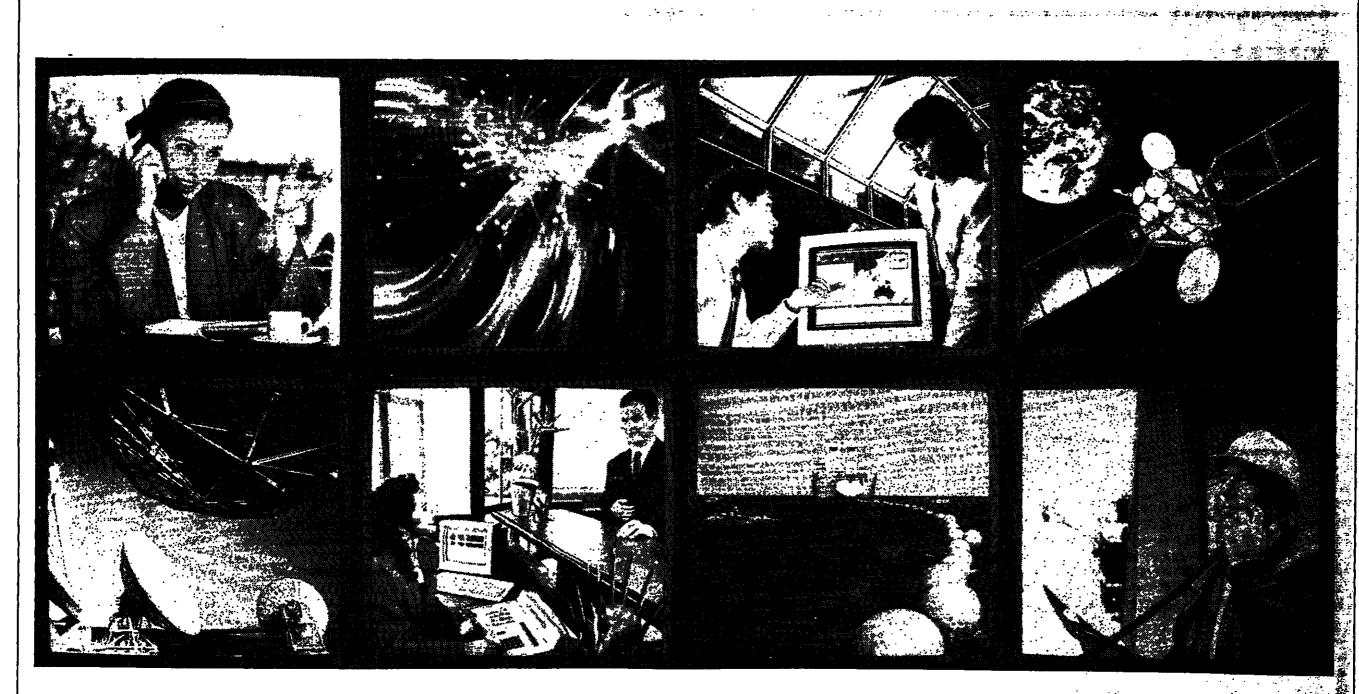


tionship achieved in Application Specific Integrated Circuits. The design cycle has to be a joint venture from the word go. Users have to be willing to say where they are heading not just today, but tomorrow and the day after. And that same level of trust will also be required from the semiconductor

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PROGRAM DIRECTOR: Bill Mahder.



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A success which not only makes us number one worldwide but, more importantly, confirms our commitment to total customer satisfaction. Alcatel. Your reliable partner in communications systems.



INTERNATIONAL HERALD TRIBUNE, MONDAY, SEPTEMBER 26, 1994

TECHNOLOGY MOVES FURTHER INTO EVERYDAY LIFE

Boundaries are disappearing between cable, satellite and commercial broadcasting - and between office computers and television sets.

Actions speak louder than sentially professional applibuzzwords in the microelectronics industry, but coining an entirely new term re- sumer color television and press what lies ahead.

Automotive

Electronics

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Manager and Park

"Next year we will probably overtake the Japanese." says Jean-Philippe Dauvin. chairman of the World Semiconductor Trade Statistics organization, citing the European electronic equipment industries' \$170 billion total output. At present. most of this equipment is loosely linked to a distinct market segment, such as the computer, telecom or consumer businesses. The traditional division between personal and professional applications has practically vanished. A new jargon is needed to describe the developments now under way.

During the early part of the 1980s, microelectronics was still primarily associated with mainframes, robots, personal computers, aero-

tem (GSM) by the year 2000.

cations. The major exceptions to this rule - the conmains the best way to ex- the VCR - accounted for try's golden rule; things get around 20 percent of the industry's production. But if the pocket calculator was current trends hold, around 60 percent of the industry's production will soon be destined for the general con-

> Terms such as "information superhighway" not only dramatize the convergence of telecom and computer technology, but also reflect the breakdown of traditional divisions elsewhere: between cable, satellite and commercial broadcasting; between the many other types of information networks available to business and private subscribers; and between the office computer and domestic television.

sumer.

Nomadic means smaller With mobile communications, consumers have also space, defense and other es- entered the age of the no-

Mobile Radio

sector for the telecom industry, which expects to have more than 20 million European subscribers for the Global Mobile Communications Sys-

tem (GSM) by the year 2000.

In many ways, GSM is only the beginning – after the pocket phone there will be the pocket somputer, personal assistant and multimedia plaything.

ASICs (Application Specific Integrated Cassis) have a vital role to play in all these developments. Without such complex components, for example, it would be impossible to produce the multi-featured, pocket sized portables that today a consumes demand.

Power consumption is also a vital factor – the tiny integrated circuits consume very little power, so the product's batteries last a long time, and the power con-

tegrated circults consume very little policer, so the product's initiaties last a long time, and the power consumption will drop even further because ever mobiler translators are being used. A chip hand on 0.5 micron technology, for example, natide, about twice as much energy as the next (0.35 micron) generation.

Driven by considerations like these, which carry important implications for many other sectors. JESSI is continuing to demonstrate how beneficial similar disparations are

madic application. Like the Jim Eastlake, senior connection between semihand-held phone, the personal digital assistant proves the microelectronics indussmaller. Fifteen years ago, considered to be a breakthrough. Today's state-ofthe-art equipment crams a screen, computer and communications link into the same space. As multimedia takes off, the makers will

and mini CD players as well. The automotive industry provides an example of the way a once distinct niche has appropriated a more generalized microelectronics-based future. Between 1990 and 1995, because of a clutch of new applications some essential for the performance of the car - the value of the semiconductor content of new vehicles will have climbed from \$40 to

probably add a television

The smart card – a small plastic card with a microprocessor embedded in its surface - is also getting smarter. New applications range from the German bid to use it as an identity card to the mobile phone operators' initiative to use it for storing subscriber information. By 1998, Europe will probably account for 80 percent of the cards* \$1.2 billion market.

Anton Sauer of Siemens

around \$100.

Nixdorf AG, who is chair-man of the JESSI Subprogram Board on Applications, points out that even the term microelectronics is no longer strictly applicable. In 1991, when the state of the art was 1 micron, Jessi went submicron with its program for 0.7-micron technology, and it plans to halve the size again, down to a 0.3-micron scale, by 1997. "We are seeing the emergence of a whole array of new products and applications that will determine the industry's future over the the next five to 10 years," says

Dataquest analyst, "Increased miniaturization is making them feasible, and the system-on-a-chip concept is making them afford-

Affordable is always a relative term. In general, us the rate of new-product launches increases, so the life expectancy - and price - of the products comes down. This trend risks locking the competing vendors into an inexorable cycle of escalating development and marketing

As a result, the triangular relationship between technology, industry and market has undergone a fundamen-ഥി shift.

The equipment makers are still the experts in packaging and distribution, but now that the industry has moved forward from building bricks to creating complete systems on a chip, the technology is getting closer and closer to the finished product," says Douglas Dunn of Philips International Semiconductors.

Largest in manufacturing In 1993, semiconductors accounted for an estimated 11 percent of equipment value. In the early 1980s, the figure was between 6 percent and 7 percent. By the year 2000, it will probably exceed 15 percent, making electronics the largest single manufacturing industry in Europe.

Trend spotters highlight the importance of relative equipment values by comparing the semiconductorcontent cost and market growth rates in the color television category (which scores 5 percent on both counts) and the fast-growing multimedia or cellular radio markets (where the figures run between 35 percent and 40 percent).

Market projections are perhaps a less reliable guide. But there is no denying the

conductor technology and the \$200 million market for portable computers, a specialized niche that is expected to grow more than 50 percent by 1997; or the \$400 million market for video conferencing, which the pundits predict will top \$1 billion by 1997; or highspeed networks, a market

Microelectronics, however, is all-pervasive. It has made possible the medical scanner, personal computer, electronic notebook and compact disc, but it has also spawned the singing birthday card, electronic door lock and talking doll. Somewhere between these two extremes, the digital watch, electronic keyboard, reflex camera and pocket calculator are now taken for granted

The market is infinite, but unpredictable," says Mr. Dauvin. "All we really know

with \$1 billion potential.

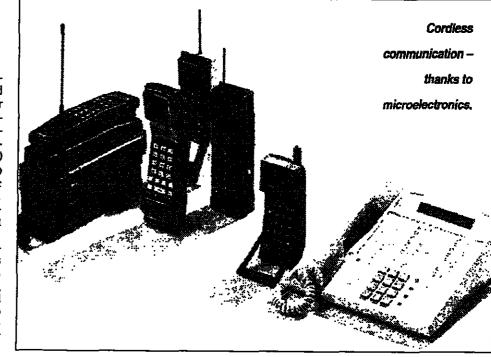
is that so far our forecasts produces unimaginable conhave been wrong. The falling costs of semiconductor functions, at over 30 perby an entire generation. cent per annum, combined

equences. Still the industry grows,

and the product size shrinks. "Things will continue to with a continuous increase get smaller and smaller until we reach the size of atoms

and run into the limits of physics," says Jim Eastlake, recalling the industry's golden rule. The term to remember: nanometers, or the 1000th part of a micron.

Steven Bartlett



VIEWS FROM THE BOARDROOM

in their performance levels,

Jörgen Knorr is chairman of Siemens AG's semiconductor group.

Europe's microelectronics 64 megabit chip. industry to solve two interrelated problems specific to the industry: It had fallen behind in technologies applied and volumes of components produced. **TESSI** has alleviated these problems. In doing so, it has helped give its major participant companies international technological credibility. What this means for Siemens: we've been accepted as an equal in the "club of global play-

As a result, we've been able to enter into partnerships with other major international companies in such leading-edge projects

JESSI was created by as the development of the data communications,

It's been often said that, since the microelectronics business is increasingly application-driven, chip endusers have to be an integral part of the pan-European R&D planning process. I subscribe to that view. But another factor, of equal importance, has to be considered. Communication networks, for instance, are assuming an increasingly large share of the market for microelectronics components. These networks,

large numbers of partici-

pants and devices. For that

by their very nature, link

voice telephony, interactive television, whatever can't "make" themselves

What I mean is this: strong demand for certain products and services is one important prerequisite of these emerging markets. The other is the presence of common standards, certification procedures, specifications and regulations. These are created through negotiation and development on the official and industry-wide levels and involve such participants as federal ministries, national telecommunication authorities and the like. In addireason, these markets - for tion, the setting up of these



systems often involves large quantities of capital expenditure and creates quite a few jobs.

For these reasons and in view of these stakes, it is essential that the governmental sector - the "managers" of these markets be included in the microelectronics research plan-



M

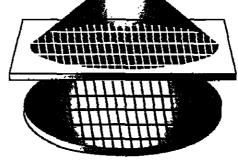
SPONSORED SECTION

Chipping Away

Though the making of integrated circuits varies from one producer to another and from one application to another, nearly all IC's involve the following eight steps.

Silicon is the basis for most integrated circuit technologies. Atoms of high-purity molten silicon attach to small seed crystal forming a single crystal ingot. Each ingot is then sliced into wafers of uniform

THIN OXIDE LAYER water. This layer, which does not cond electricity, can be as thin as 50 atoms



PHOTOLITHOGRAPHY A photosensitive material (photoresist) is spread evenly over the water surface. A wafer stepper projects a pattern of circuit components and their interconnections through a mask onto the wafer. The exposed pattern is "developed" in a chemical reaction.

Reactive gases etch away the exposed areas to create a dimensional pattern on the water surface. The photolithography and etching stages are repeated up to 20 times so as to define the patterns of the various layers of conducting and non-conducting materials.

IMPLANTATION -High-energy ions are driven into the exposed areas of the patterned wafer to create electronically conduc-

PROVIDING THE TECHNOLOGY FOR APPLICATIONS IN THE MARKET

Integrated circuits based on leading-edge research are combined with advanced, high-volume manufacturing methods.

Of this figure, CMOS technology devices comprised 77 percent of the integrated-circuit product range. (CMOS is short for Complementary Metal Oxide Semiconductor.) These statistics indicate the strategic importance of this technology to the future of the European microelectronics industry.

To capitalize on this burgeoning market, the JESSI Technology Subprogram focuses on the development of basic technology, advanced products and flexible manufacturing methods for the cost-effective, high-volume production of advanced integrated circuits. To this end, the Technology Subprogram is concentrating on two major areas: technology for the production of highly integrated CMOS logic circuits and competitive, high-volume manufacturing methods.

Joint logic technology

As minimum integrated-circuit feature sizes continue to dwindle, existing processing techniques will be pushed to their physical limits. At some point, new technological breakthroughs will be required to realize the next generation of microelectronic devices. JES-SI's advanced CMOS cluster is busy preparing the basic know-how neces-

sary to achieve these breakthroughs. CMOS technology, the method of

In 1993, the global market for integrated circuits grew by some 30 percent, to a total volume of \$70 billion. low power consumption, is currently being developed for processes with several options, such as low supply voltage, embedded memories and analogue functions. As part of the JESSI Joint Logic project, this program aims to provide European manufacturers with leading-edge CMOS technology for the design and manufacture of inno-

vative microelectronic systems. The Joint Logic project has brought together the resources of two internationally renowned research institutes and seven major European integrated circuit manufacturers, with the latter group collectively representing some 10 percent of global semiconductor production. In this way, JESSI hopes to speed up development by facilitating close cooperation between partners, thus shortening the R&D learning curve. Together, the project collabora-tors have developed new generations of CMOS logic processes characterized by ever smaller dimensions, larger diameter silicon wafers and advanced

manufacturing techniques.
The Embedded Memories project deals with data storage, the most frequently used function in modern elec-

The objective of these JESSI projects is to enhance Europe's ability to incorporate high complexity functions in advanced silicon integrated-circuit de-

igns.
The technology developed will serve

Technology for volume production The project objective is to develop and master CMOS technology with features sizes down to 0.35 microns, which is needed for the production of high-complexity memories.

Memories are the most frequently used integrated circuits. The worldwide IC product catalogue has about 40,000 product types, and a couple of hundred memory types serve more than 25 per-cent of the total IC market. These are high-volume items, made in the most

advanced processes. The activity includes new circuit development, reliability testing, mask making and packaging technology. These new memory types will be produced on 200-millimeter wafers, the

largest wafer size available today. JESSI deals with development aspects of both volatile memories, in the form of DRAMs (dynamic random access memories), and non-volatile memories, in the form of EPROMs (electrically programmable read-only memories) and EEPROMS (erasable electrically programmable read-only memories). The volatile memories lose their information when the power supply is switched off.

In DRAMs, the information is stored in

the memory must be refreshed several times per second, an action which updates the information. The capacitor design is a crucial aspect in DRAM de-

velopment DRAMs are the workhorses of the industry. The main memories of most computers are made with DRAMs.

Since their introduction in the late 1970s, EPROMs and EEPROMs have become essential parts of almost all electronic equipment. EEPROMs are more complex than EPROMs and can be found in consumer, automotive and

telecommunications applications. Flash EEPROMs have recently emerged as the new stars in the field of advanced memories. Highly applica-tion-driven, Flash EEPROM development is expected to support a diverse range of new dedicated high-volume applications in computers, peripherals, automotive control systems and telecommunications. For participants in this JESSI program, Flash memories present both significant market opportunities and major technological chal-lenges. Some of the results achieved in the field of high-complexity EPROMs and Flash EEPROMs have already reached the market.

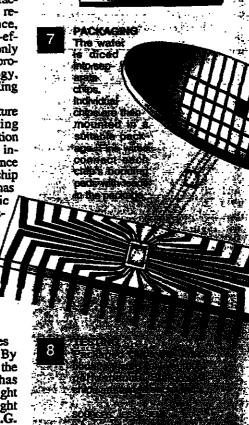
Manufacturing science

The manufacturing competitiveness of the European semiconductor industry choice for the production of integrated as a basis for the development of logic circuits with a high complexity and/or and analogue CMOS devices for a capacitor. This charge leaks away, and submicron production. The JESSI time.

manufacturing engineering projects are therefore geared to developing practical solutions for the efficient production of integrated circuits with submicron feature sizes. In this way, JESSI will enable integrated-circuit manufacturers to meet the often conflicting requirements of process performance, manufacturing flexibility and cost-ef-fectiveness. These objectives can only be achieved by closely integrating production factors such as technology, equipment facilities, materials handling and automation.

The integrated circuits of the future will be characterized by increasing complexity, higher power consumption and larger chip surface areas. But increased electronic systems performance is supported by improvements in chip packaging technology. Packaging has thus become an essential strategic part of all advanced electronic systems. The objective of this JESSI program is the development of the mounting, interconnection and packaging techniques necessary to meet the needs of future chip generations. Project activities are directed toward the development of a silicon substrate to accommodate several chips and the refinement of existing technologies for the packaging of single chips. By pioneering advances such as these, the JESSI Technology Subprogram has been instrumental in bringing the right

Thin metal layers interconcect



BUSINESS DIVISION SEMICONDUCTORS [WACKER

Dataprocessing Telecommunication Consumer electronics Industrial electronics **Transportation**

Examples for the pervasive power of microelectronics

Silicon

is the indispensable base element for all these applications.

A growing worldwide market for electonic equipment, amounting to 700 Billion US\$ in 1993, owes its existence to the availability of semiconductor devices built on hyperpure silicon wafers.

WACKER

is the world's largest manufacturer of hyperpure polycrystalline silicon, the base material for silicon wafers.

WACKER is also one of the leading suppliers of wafers to the world's semiconductor industry.

Convinced that alliances represent an excellent way of implementing development results into mutually beneficial supplier-user relationships, WACKER contributes to the JESSI program in the field of silicon materials.

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BUILDING EXPERTISE INTO AN INDUSTRY ABLE TO COMPETE

Crucial role played by equipment and materials.

A broader and technologi- different phases to increase cally more advanced equipment and materials sector is necessary if the competitiveness of the European electronics industry is to be advanced. JESSI has therefore devoted a significant part of the European E&M indus-

Silicon wafers

PACH Zirate

Pett' aci.

Semiconductors are etched onto thin disks made of silicon - silicon wafers - and then cut into chips that are mounted in a package to make the well-known "integrated circuit," or IC. Silicon the basis for all emerging integrated circuit technologies and is of crucial strategic importance to the microelectronics industry.

As silicon is made of sand, the basic material is abundant. The problem is to put more transistors onto one wafer. Wafer size has gone up from less than 1 inch at the start, to 8 inches now and to probably 12 inches in the future. And transistors have become smaller, from 40 microns at the beginning to 1.1 micron now. This tremendous increase in productivity means that the material used and the production techniques must be of pattern contrast on a silicon wafer. Phase shift masks applied during wafer exposure achieve maximum edge definition and resolution enhancement.

This technology can douits attention and budget to ble the resolution for linespace structures, improve process latitude by 40 percent and extend the lower limits of optical lithography. This postpones the need for expensive alternative technologies.

In order to ensure the availability of phase shift masks, this JESSI project is creating a European capability for the commercial production of these devices.

The deep-UV stepper

As optical lithography technology continues to advance, it has become clear that current i-line techniques for some processing will eventually have to be completely replaced by deep-ultraviolet lithography. To pave the way for this transition, this JESSI project has initiated significant changes throughout the entire optical path. DUV lithography is now able to improve the quality and overall accuracy of the micro-image, reduce the number of defects, and speed turnaround times.



Protective clothing is for the chip as much as the chap.

The i-line stepper

I-line steppers (using a particular line from the light mercury-spectrum) are used to meet the increasingly stricter demands made by advanced integrated-circuit processes. (Deep ultraviolet wavelengths are used in the next generation.)

Emphasis is placed on the mechanical positioning and optical performance of the stepper (a type of precise projector that projects images of the chip layers onto

A JESSI project has developed a new generation of i-line steppers designed to improve off-axis illumination, reduce distortion, increase reliability and enhance productivity. Further improvements will facilitate the use of optical lithography for processes requiring more critical details.

Phase shift masks

Phase shift technology makes use of the interference between light waves of E-Beam metrology

The overall objective of the JESSI Electron beam (Ebeam) Metrology program is to provide the European microelectronics industry with a scanning electron microscope metrology station capable of monitoring structures in the factory environ-

This system will have a throughput factor three times that of equipment currently in use, and it will reduce contamination and provide technological spin-offs into related areas.

Cluster tools

The Cluster Tools program concerns the physical combination of several process modules into a single piece

Taken together, these JES-SI E&M projects build upon existing European expertise to ensure the viable and economical production of semiconductors into the 21st cen-

James Geary

Common Framework

The JESSI Common Framework project cuts across national and industry divides to provide Europe's systems houses and chip makers with a common pistform for computer-aided engineering applications.

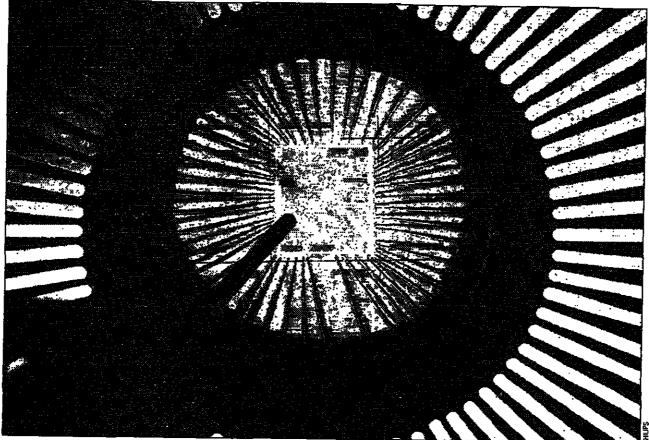
Like JESSI itself, the common framework enables several partners to attack the same problem simultaneously. By using this approach, known as concurrent engineering, they can reduce the overall development costs of a product and get it on to the market faster "It's unique," says Anton Sauer, who has been involved with the project since its inception. "With JCF,

JESSI is integrating all the various steps toward inte-

grated chip production based on European standards."

Over 100 people from 17 companies in seven European countries contributed to the software's first release in July 1993. Beyond use in an engineering environment (such as board layouts, chip design and circuit measurement), the platform also offers considerable potential for further application in maintenance,

Philips Semiconductors



Testing, one of the last steps in making an integrated circuit.



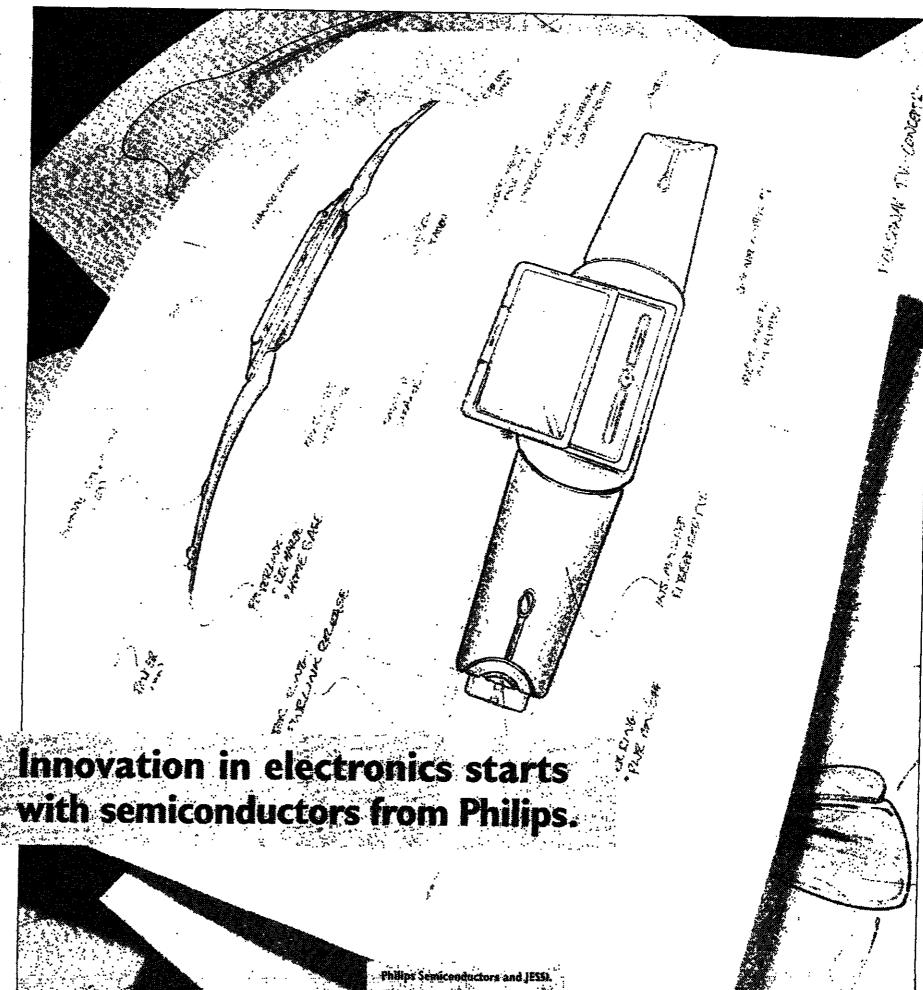
Digital TV Receivers

The European Telecommunications Standards Institule (ETSI) has established a common standard for digital television broadcasting throughout Europe. Beginning in 1996, it will increase competition between ca-ble, satellite and terrestrial television services.

Over 110 organizations are supporting the European Launching Group - Digital Video Broadcasting, which has as its task the defining of specifications for the transmission of digital services via satellite, cable and terrestial links.

The project's role is complex but vital. On one side, it is helping the key players to translate a standard into precise component specifications for transmission and reception. On the other, it helps feed information back into the standardization process. Most important for the viewer, it is enabling Europe's companies to re-alize economies of scale in the development of a new television generation.

The partners in the JESSI Digital Television Receiver project are developing a set of integrated circuits and other components for consumer receivers of digital audio and video transmissions. S.B.



Fast-growing markets demand innovative products. Innovative products need sophisticated semiconductors.

Which is why Philips Semiconductors is continuing its drive to create advanced submicron devices and chipsets for the coming generations of products in the multimedia, wireless personal

Philips Semitonductors has been Involved with JESSI from its inception. Major examples of our involvement in the Technology Supprogram are:

T20 Joint Lagic - Submicron CMOS. T22 Embedded Memory - SRAM, DRAM, NYM options for CMOS. T24 TIBIA – (Technology Initiative

Submicron BiCMOS. T30 MST (Manufacturing Science and Technology) -Low cost manufacturing

for BiCMOS in Application) -

communication, and consumer markets.

As Europe's leading indigenous semiconductor supplier, we have strong design and manufacturing resources serving these markets. In addition, we're proud to be working with JESSI, sharing their vision and commitment. Together we will push the boundaries of microelectronics even further.



PHILIPS



Digital audio broadcasting, which may replace FM in the car radios of the future, is given a mobile test.

Time passes.

Companies evolve.

And so does the marketplace.

move into the neighborhood.

Much like when new kids

TEMIC. The newest kids

been around for years.

in the neighborhood have

EXPERIENCE POINTS THE WAY TO NEXT INTERNATIONAL STEP

Moving from market-defining projects to market-furthering cooperation.

In the early days of integrated circuits during the 1960s, one factor reduced the complexity of microelectronics research: It was all primarily focused on one set of purchasers, the world's computer manufacturers.

Now this factor is gone. Worldwide, only 40 percent of all microelectronic components currently go into personal computers and mainframes. Telecommunications, industrial systems and consumer electronics have become microelectronics markets of comparable magnitude

Increasing intricacy One factor all these divergent markets have in common is that they are continually generating products of increasing individuality and

The upshot of this proliferation of areas of application is that developing all of them is no longer feasible from a scientific point of view, nor desirable in terms of costs and benefits.

A preselection of microelectronic research topics is necessary and is best left to the companies that will pur-

At least, that is the operat- working relationships it has ing procedure chosen by a group of European executives, research officials and governmental representatives engaged in roundtable

discussions. Their subject is the future of the semiconductor industry and how the Continent can best prepare itself for it. Their ranks include a large contingent of industrial chip consumers.

Similar structure This is not the first time such a roundtable has been con-

vened. Eight years ago, similar deliberations led to the founding of JESSI. In fact, the organization

emerging from these deliberations - given the working name MEDEA - will probably share one key feature with its predecessor: its "JESSI's method of using

projects and clusters to vertically and horizontally integrate Europe's variegated microelectronics industry has proven its merits," says Heinz Hagmeister, the program's chairman. "It would be ill-advised not to capitalize upon this successful experience and the wealth of

engendered."

According to Mr. Hagmeister, the creation of a market-driven organization would represent building on the past's accomplishments rather than a radical break with it.

Market-oriented

"JESSI has always had a strong applications, marketoriented component," he says. "This orientation has been getting stronger over the past few years as the growing number of application-related projects shows. And, as no one ever designs and produces a chip without having a potential customer in mind, chip-manufacturing has always been market-dri-

The scenario emerging from the roundtable is that JESSI's completion, scheduled for Dec. 31, 1996, will be smoothly and immediately followed by the start-up

of the new organization. "A transition from JESSI and its market-defining projects to MEDEA and its market-furthering ones" is how Mr. Hagmeister de-

Digital Audio **Broadcasting**

Until recently, FM radio has been fighting a josing battle with the CD player. For sheer listening pleasure. especially in a moving vehicle, the CD player's digital audio sound quality used to be far superior. Now it has

Digital Audio Broadcasting is the digital successor to Europe's 40-year-old FM radio network. Within the next 15 years, industry pundits predict, it could replace ana-

ogue FM entirely. The new digital technology not only boosts audio sound quality for listeners, but also enables more stiltions to be crammed into the same bandwidth and opens up intriguing new possibilities for broadcasters. With a little added data, for example, the radio could be persuaded to visually display song titles, news flashes

DAB will be taking to the alreaves in 1995. JESSI, which has been involved in the project since 1990, will be delivering first generation chip sets for large scale field trials of the system at the end of this year. A secand generation for mass production is scheduled to fol-

LONG-TERM IDEAS **PUT INTO FOCUS**

Program combines Europe's research skills.

I he link between ad- tium combines the skills and quality and quantity of basic than in the semiconductor industry. "Innovation lies at the

heart of the semiconductor R.A. Lawes of the Rutherford Appleton Laboratory in Oxfordshire, England, who is chairman of the JESSI Subprogram Board on Basic and Long-Term Research. "In Europe, these innovative skills are present in both industry and academia, particularly in the large national research centers such as IMEC in Belgium, LETI and CNET in France, the Fraunhofer Institutes in Germany and DIMES in the Netherlands. It's important to JESSI - and hence to the European semiconductor industry as a whole - that these human and technological resources are focused on problems relevant to the future competitiveness of the

Long-term Research Subprogram was set up to proations. The project consor-

European industry."

vanced technology and the expertise of the leading European R&D centers with research is nowhere more the market and product spectacularly demonstrated awareness of the Continent's major IC manufacturers (Philips, SGS Thomson and Siemens).

"The real strength of JESindustry," says Professor SI for basic and long-term research," says Mr. Lawes. "is that it provides a focus for ideas originating in academia and a management structure whereby the best ideas can be chosen for investigation, evaluation and funding.

According to Mr. Lawes. the major challenge facing the basic and long-term research community is how to manufacture semiconductor devices with dimensions of less than 0.15 microns. He cites the field of optical lithography as a case in point. 'At dimensions of less than 0.2 microns," Mr. Lawes explains, "conventional optical lithography reaches its limits due to the basic laws of physics. A technological revolution - instead of an The JESSI Basic and evolution - may then be necessary to take the next step. This is just one example of vide the multidisciplinary how basic and long-term re-R&D framework necessary search today is essential to to pave the way for future maintaining and increasing CMOS logic process generations. The project consor-ations. The project consor-

ADVANCED CHIPS

Continued from page 13

an apologetic aside, if at all. Then came a renewed commitment to research and development by Siemens, Philips, Daimler-Benz, Matra, \$GS-Thomson and Europe's other manufacturers of semiconductor components, all of whose microelectronic-related R&D expenditures reached new highs in the late '80s.

JESSI's role

JESSI played an important role in this rapprochement between chip and industrial manufacturers, particularly with its "applications" subprogram. according to Guy Dumas, the program's vice chairman of the board.

"In this sub-program's projects, some of the Continent's largest industrial manufacturers - including Daimler Benz, Alcatel and GEC - have been articulating their needs and wishes, and microelectronics manu-

facturers have been respond-

ng."
The impact of microelectronics has not been restricted to boosting Europe's existing industries. Chip-based and -related technologies have been creating such spin-off sectors as "telemaintenance" and "biosen-

Long-distance repairs

Both these spin-offs have been developed and marketed by young European companies, and both feature an "implanted chip" linked online to a central computing

In the first case, the chip is placed in a machine tool or production line and monitors facility performance, "calling" for long-distance repair services when needed. Biosensors are embedded in lakes and marshlands or even in human tissue and use "bioreactors" to report on levels of industrial contaminants. Terry Swartzberg

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Yet some of these new

entrants are very experienced.

Take, for example, TEMIC

creation of Daimler-Benz

ductors, Siliconix, Matra MHS, Dialog Semiconductor,

and Eurosil into a single

international organization.

One backed by worldwide

manufacturing capability and

98 cumulative years of service to the semiconductor industry.

Semiconductors, a powerful

unifying Telefunken Semicon-

EMC Workbench

Due to the decreasing delays in new hipologies, additional design problems with electromagnatic compatibility (EMC) ena in electronic components and sys-

tems. EMC is of cocsiderable importance for all electric and electronic designers.

The implementation date of the EMC directive of the EU is implementation date of the EMC directive of the EU is implement, and thereafter all electric systems will

have to be inherently immune to disturbances and will have to first emissions in order to avoid radio interfer-

To transfer new technologies as quickly and offer tively as possible to everyday design practice, it is necessary to provide an EMC design environment to

necessary to provide an ENC design environment to support component and system designers.

To decrease the high number of redesigns, attention must be given to EMC aspects at an early design, stage. The designer must have access to knowledge about the relationship between circuit, component and system level.

To reduce the time for the development of electronic must appropriate access to electronic must be expected as a constant access to electronic must be expected as a constant access to electronic must be expected as a constant access to electronic must be expected as a constant access to electronic must be expected as a constant access to electronic must be expected as a constant access to electronic access

systems and components, the proposed project similar to develop an "EMC Workbench for Microelectronic Application" related to the requirement of achieving electromagnetic compatibility.

THE EUROPEAN DIMENSION

Many roots sustain what has become a big tree.

If JESSI were a chip, it would be a hybrid.

"It is a typical Eureka project in terms of its top-down element. In other ways, it is completely atypical," says Reinhard Loosch of the European Union's Eureka secretariat.

"The European Union deserves the credit for our broad outlook, but the Dutch, German and French governments merit thanks for having supported us from the start," says JESSI Vice Chairman Guy Dumas. "The result may be a strange animal politically speaking, but it is European, with ready access for widespread cooperation with other national research institutes and smaller businesses."

新 幹申 L

"Its a big tree with many roots," says Charles Henri Dominé, a senior civil servant who has been involved in JESSI's development since the start in 1988. "One key was the German government's recognition that it had become impossible for a single country to adequately fund all microelectronics research alone. The European Commission played a key part by responding positively when approached for funding - but only on condition that a framework for cooperation was established within the industry."

More cards

Just over 40 million "smart

cards" are in circulation to-

day, and the forecast is that

well over 300 million will be

on sale in Europe in two and

a half years. Germany's VDI

Nachrichten reports that the

are the rapid proliferation of

mobile telephones, pay-TV stations and "remote" bank-

ing transactions (those not

carried out on bank premis-

es), plus the Continent-wide introduction of these cards

as health care system (Ds and mass transit tickets. As the cards' "intelligence"

comes from microcontrollers (a form of high-end

chip), further expansion of

the Continent's microelec-

Research on the frontier "Nanocircuits" - referring to

their tiny nanometric size -

have a "bump" and a "plain." The bump means "1" and the plain "0." The

bump is exactly one tung-

sten di-selenide molecule

high. The chips to be made

out of these circuits will

have capacities roughly 1

million times higher than

These circuits were devel-

oped by Harald Fuchs and Thomas Schimmel, two

German researchers. Although their wide-scale

practical use in chips is still

at least a generation away, the technology is already being employed to create nanometric yardsticks: cali-

bration devices capable of

measuring the dimensions

nanochips will come from photonics-based systems,

which use as their media

photons, the components of

light. Photons can carry vastly greater amounts of

information than electrons

and occupy much less

space. They are already at

work transmitting telephone conversations and streams

of data through glass-fiber

Competition for these

of microsystem devices.

conventional ones.

tronics sector is certain.

Cims

prime causes of this boom

INDUSTRY BRIEFS

JESSI was described as shareholder-driven approach "an important step toward securing the availability of world competitive microelectronics for the European industry" by the IX Conference of European ministers in Hague in June 1991, citing the timely set-up of the organization and the realiza-

tion of technical milestones. "A Europe of men, not institutions," says Charles Henri Dominé, capturing the essence of JESSI.

Developed as an ad hoc arrangement and confirmed by a simple exchange of ministerial letters in 1988. JESSI is all about Europeans working together. From the beginning, industry and public authorities have worked closely in parallel, with each side mirroring the other's two-tier structure for dealing with executive and operational issues.

The civil servants and technocrats brought the cold eye of reason to bear and helped check the deadly race for development at any cost that was bleeding the European industry's key players white. At the same time, through common goals and common projects, they helped impose a common basis for longer-term national planning within the EU's

four-year frameworks. The industry brought a

Philips Electronics of Eind-

hoven, the Netherlands an-

nounced in August that it

will invest some 500 million

guilders (\$287 million) in

the manufacture of integrat-

ed circuits at its facility in

Nijmegen, the Netherlands.

This will lead to an addition-

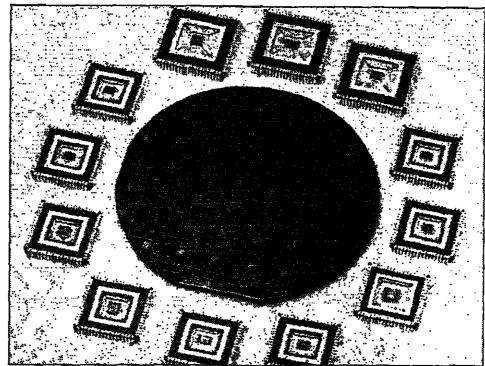
al production capacity of

more than 10,000 submicron

wafers a month, creating

about 300 new jobs.

Dutch expansion



Twelve designs from one water - the Multi Project Water Service finds a way of delivering microchips at greatly reduced cost.

SMI Support Program

Only industry giants can afford to underwrite the enormous costs of leading-edge microtechnology development. Without small and medium-sized industries (SMis), however, there would be far less industry to

By promoting closer cooperation between the two sides, JESSI's SMI Support Program is securing the future of the European microelectronics sector as a

In a bid to spread the potential benefits of microelectronics technology more widely, JESSI has already passed the halfway stage of an ambitious program to establish by 1996 contact with 25,000 European small and medium-sized companies and potential users of JESSI technology.

The initiative, which was launched in 1990, underscores the vital part that Europe's smaller businesses play as both industry suppliers and market innovators. To provide them with direct practical support, JESSI's 10-nation network of Competence Centers offers a full range of design, prototyping, testing, training, feasibility study and other services.

S.B.

BOARDROOM

VIEWS FROM THE

Doug Dunn is chairman and CEO of Philips Semiconductors.

The pace of growth alliance, a balance must be within the electronics industry is still quickening. There are still many fluid, ill-defined potential markets. The task at hand is to define winning products for the future. Since the financial stakes are high, corporations are forming alliances - including transcontinental alliances to create the best chance of identifying successful new products. But it's the quality and not the quantity of alliances that matters. Alliances are most effective when companies serving different links in the value chain - from basic silicon chips to finished electronic devices - come together to enrich the final product.

to getting results, global

market experience and a

commitment to developing the type of alliances and

strategic relationships need-

None of this would have

been attainable without a de-

gree of government funding

and, above all, central coor-

dination. How else could an

industry coordinate the ef-

forts of more than 2,500 sci-

in 14 countries? In retro-

spect, some insiders argue

that dialogue not only com-

pelled the key players to

agree on program content.

but also was instrumental in

sustaining a viable electron-

ic industry in Europe.

entists and engineers at work

ed, sector by sector.

struck between the competitive issues and the ultimate benefits. For the European industry, the benefits of mutual cooperation are great. Given the strength of foreign competition, healthy individual semiconductor manufacturers are not enough. The European industry as a whole has to be healthy in order to stand shoulder to shoulder with Japanese, Korean and American firms. The European industry should therefore concentrate on collectively creating products with added value rather than merely swapping knowledge. It may be time for JESSI to consider more In any joint venture or competitive forms of col-



laboration closer to the fi-

nal product. Silicon technology is a key enabling technology for all types of industries, from coal mining to auto-mobile manufacturing to shipbuilding. Without access to electronics, many industries would simply grind to a halt. By focusing on submicron silicon technology, JESSI provides an important stepping stone to a healthy European electronics industry. And a healthy European electronics industry means that European industry as a whole

ALLIANCES ADD VALUE

Uiuseppe Zocchi, director of R&D Technology at SGS Thomson Microelectronics. emphasizes JESSI's importance in producing added value for Europe's chip manufacturers through strategic alliances, often with competitors.

R

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"JESSÎ has been an important stimulus," says the Italian engineer. "The general requirements of our industry have brought all semiconductor companies closer together than before. We have a clearer idea of each other's objectives. In fact, we have very few secrets from each other.

ment costs spiraling, chip manufacturers now appreciate the advantages of sharing information, according to Dr. Zocchi. "An excellent example of

how this type of partnership functions is SGS Thomson's partnership with Philips at our own company's facility in Crolles, France, where we are developing process technology for chips with feature widths of 0.5 microns and below." says Dr. Zocchi. He adds: "That marks a big step forward from the early times of JESSI, when companies were already cooper-

With product develop-ating, but each at his own fa-cility. Now, working together as we do at Crolles, there is more synergy. France's Centre National des Etudes de Télécommunications is associated with the venture."

The Franco-Italian and Dutch chip manufacturers decided to work together on the same site in order to accelerate the development of new processes.

SGS Thomson and Philips began cooperating at Crolles last year, as soon as 8-inch wafer fabrication was begun. The 0.5 micron process is now being worked on.



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IIS-B Institut für Integrierte Schaltungen

> **ISIT** Institut für Siliziumtechnologie

IZM Einrichtung für Zuverlässigkeit und Mikro-

integration

These Fraunhofer Institutes are participating in various JESSI projects in the field of:

- Technology
- Lithography
- Etching and Deposition
- Interconnection and Packaging
- Equipment and Materials
- Simulation

IVIS Fraunhofer Research Cluster for Integrated Systems

IVIS (Fraunhofer - Institutsverbund Integrierte Systeme) is a research cluster containing three institutes. We are focused on advanced silicon technology and system integration techniques including ecological aspects of microsystem technologies.

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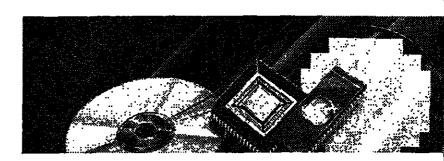
Mrs Susanne Jakob Fraunhofer-Institut für Siliziumtechnologie

Dillenburger Strasse 53 D-14199 Berlin

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General Contractor

orkbench European triumph STAR STATE OF THE Once the power has been turned off, conventional ESTE LINE DRAMs (dynamic random access memory) lose infor-Market and the state of the sta mation. Not so Flash Mary Company of the State of th EPROMs (erasable programmable read-only mem-**建** ories). The ability of these chips to secure data instanta-But he state of the neously has made them the Mark Day of the All All fastest-growing product in make the first the microelectronics sector. thought and the

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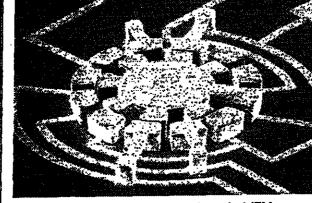
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In 1992, according to Dataquest, some \$300 million worth of Flash EPROM chips were sold worldwide. In 1997, the figure is projected to be \$3 billion. SGS-Thomson has become one of the world's three leading manufacturers of Flash EPROMs. Two-thirds of the company's chips are produced in Europe; and more than 50 percent of its production is exported.



Electrostatic Micromotor developed at IZM

D A **SPORTS**

Hill Closes In On Schumacher

The Associated Press

ESTORIL, Portugal - Damon Hill of Britain won the Portuguese Grand Prix on Sunday, heading a Williams-Re- nant in the first part of this nault sweep to close to within season, is to return, with three one point of the suspended Formula One championship leader, Michael Schumacher.

In a textbook race, the blueand-white cars of Hill and his Scottish teammate David Coulthard headed the field almost constantly from the eighth lap, when the leading Ferrari of Gerhard Berger of Austria rolled to a halt trailing gray smoke.

Hill completed the 71 laps of the 4.36-kilometer (2.725-mile) Fernando Pires da Silva circuit in one hour, 41 minutes and 10.165 seconds at an average speed of 183.589 kph. Coulthard was second, just 0.603 seconds behind

"We had 100 percent reliability from the car," Hill said after toasting his victory on the podium "And I'm absolutely delighted with the result. Winning the 10 points gives us a terrific platform to finish off the sea-

The triumph gave Hill a total of 75 points in the drivers' championship tables, just one ed for three races, Brabham's behind Schumacher, who com-

pleted a two-race ban on Sunday for ignoring a black flag earlier this season. The German Benetton-Ford driver, domiraces to go, at the Oct. 16 race at Jerez, Spain.

Hill predicted that Schumacher would be "fired up" after his forced absence and said he expected "a real ding-dong" for the rest of the season.

Mika Hakkinen of Finland was third on Sunday in a McLaren-Peugeot, 20.193 seconds behind Hill and 7.8 seconds onds ahead of the Jordan-Hart of Rubens Barrichello of Brazil.

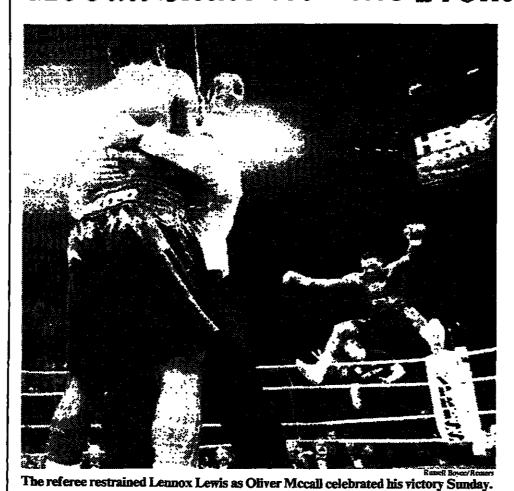
Jos Verstappen of the Netherlands was fifth in his Benetton-Ford, and Martin Brundle of Britain, in the second McLaren-Peugeot, placed sixth. The one-two by Hill and Coulthard gave Williams-Re-nault 16 points for a total of 89

points and the lead in the cham-

pionship tables, two points ahead of Benetton-Ford. Race stewards penalized Da-vid Brabham of Australia with a one-race ban after a collision with Jean Alesi, Berger's teammate. The ban will be suspend-

Simtek-Ford team said.

McCall Snatches Title From Lewis With 2d-Round KO



By James F. Clarity

New York Times Service LONDON - Within 20 minutes of his underdog fighter's stunning knockout victory in a heavyweight championship match early Sunday, Don King was performing, flamboyant in the way that makes him boxing's ineffable presence. He attacked HBO, which had televised the fight in America; he paraphrased Winston S. Churchill and Rudyard Kipling and dashed off a version of "Yankee Doodle Dandy. For King the new Yankee Doodle Dandy is the winner

of the fight, Oliver McCall, whose quick right-hand counterpunch knocked out Lennox Lewis, the World Boxing Council champion, after 31 seconds of the second round at Wembley Arena. McCall, 29, an American mostly known as Mike Tyson's sparring partner, with a previous record of 24-5 against undistinguished opponents, was hard pressed at the post-fight news conference to make himself heard over the unrestrained gloating of King.

While no direct charges of unethical or illegal tricks were attributed to King, there were suggestions that he and McCall, if they had not somehow stolen the fight, had indeed taken something that did not belong to them.

The return of King and a rush of controversy about the fight sprung from McCall's punch to the face of Lewis, who had never lost a fight, nor been knocked down.

The punch knocked Lewis to the seat of his shiny black shorts. His back touched the floor, he rolled over and got up shakily as the referee, Jose Guadalupe Garcia of Mexico, was counting. Lewis said later he first heard the count when it reached six. By seven he stood up and stepped back un-certainly, wobbled to the side, then toward the referee.

"I was getting my feet straight," he said. "He asked me if I was O. K. I nodded with my head yes. He asked me again. I nodded yes. Then he waved off the fight. It was an awfully fast count. I was totally robbed."

"I think as heavyweight champion I should have been allowed to continue," he said. Garcia raised 10 fingers in Lewis's face, then blocked him from moving toward McCall, and wrapped his arms around the defeated

champion. "I am absolutely sure of what I did," the referee said. "Lennox Lewis was knocked out, gone. To allow more punches to Lennox Lewis could have had fatal consequences. It is my duty to protect the health of the boxer."

But boxing experts noted immediately that Garcia comes from Mexico City, where the WBC is based, and its president, José Sulaiman, is known to be friendly to King Lewis camp officials said the WBC had at first wanted to name two Mexican' officials to the fight, but that. British officials reduced the number to one.

At the news conference, Frank Delaney, Lewis's man-ger, was clearly angry as he announced that he would protest the result on the grounds that a fast count was delivered by a referee who had never before worked a heavyweight championship.

But Sulaiman said, "Lennox Lewis was very hurt." He said the referee had handled. 12 championship fights, but none heavyweight

"He is one of the best in Latin America," Sulaiman' said. He added that the WBC would consider the protest at its meeting in Spain next month, and had the power to order a rematch, but said that? this seemed unlikely.

SCOREBOARD

Top 25 College Results

How the top 25 teams in the Associated Press' college footboll poli fored this week:

1, Florida (3-0) did not play, Next; of Mississipal, Saturday; 2, Netzruska (4-0) beat Pocific79-21. Next; vs. Wyoming, Saturday; 3, Florida State (4-0) beat No. 12 North Carolina 31-18. Next; of No. 6 Mismil, Oct. 8: 4, Michigan (2-1) lost to No. 7 Colorado 27-26. Next; of lowa, Saturday; 5, Pean State (4-0) beat Ruisers 55-27. Next; of Temale, Saturday; 5, State of Colorado 27-28. Next; of Temale, Saturday; 5, State of Temale, Saturday; 5, Pean State (4-0) beat Ruisers 55-27. Next; of Temale, Saturday.

27, Next: at Tensele, Saturday.

6, Mianti (2-1) lost to No. 17 Washington 38-4. Micrait (21) lost to No. 17 Westington 38-20. Next: at Ruthers, Schurday; 7, Colorado (3-0) bed No. 4 Michigan 27-26. Next: at No. 15 Texas, Saturday; 8, Arizona (3-0) bed Stan-ford 34-10. Next: vs. Creson State, Saturday; 9, Netre Dame (3-1) bed Purdye 39-21. Next: vs. Stanford, Saturday; 16, Auburn (4-0) bed East Tennessee State 38-0. Next: vs. Ken-hacky. Thursday.

11, Alabama (4-0) beat Tukine 20-10. Next: Georgio, Safurday; 122 Texas ASM (1-0) bed Southern Mississipal 41-17, Next: vs. Texas Tech. Safurday; 13, North Carelina (2-1) lost to No. 3 Florido State 31-18, Next: of Southern Methodisi, Safurday; 14, Virginia Tech. (4-0) heat West Virginia 34-6. Thursday. Next: at Syrocuse, Saturday: 15, Texas (3-0) beat Tex-as Christian 34-18. Next: vs. No. 7 Colorado.

Saturday.

16, Wiscensia (2-1) beat No. 25 Indiana 62-13.

Next: at Michigan State, Saturday; 17, Washington (2-1) beat No. 6 Migmi 38-28. Next: vs. No. 18 UCLA, Saturday; 18, UCLA (2-2) lost to No. 18 UCLA, Saurrary; 18, UCLA (2-2) IOST 19
No. 22 Washington State 21-8, Next; of No. 17
Washington, Saturdary; 19, Southern Cal (2-1)
beat Baylor 37-27. Next; vs. Oreson, Saturdary; 28, Ohlo State (3-1) beat Houston 52-0.
Next; of Northwestern, Saturdary,
21, Oklahoma (2-1) did not play, Next; vs.
Iowa State, Saturdary; 22, Washington State
(2-1) beat No. 18 IEC 4 21-0. Next; of No. 22
(2-1) beat No. 18 IEC 4 21-0. Next; of No. 22 (3-0) beat No. 18 UCLA 21-0. Next: at No. 23

(3-d) pedra No. 1 over 21-d, next; or No. 23 Tennessee, Soturdov; 23, Tennessee (1-3) lost to Allasissippi State, Saturday; 24, North Coroli-na State (3-d) beat Western Carolina 38-12. Next; vs. Georgia Tech. Saturday; 25, Indiana (3-1) jost to No. 16 Wisconsin 42-13. Next: vs.

Other Major College Scores

Boston College 21, Pittsburgh 9 Boston U. 30, Villanova 15 Brown 32, Rhode Island 29 Bucknell 42, Harvard 23

C.W. Post 42. Cent. Connecticut St. 14 Contsius 28, Siena 7 Cornell 13, Forthorn 6 Delaware 58, West Chester 55 Ducuesne 40, St. Peter's 21 Holstra 27, Latayette 6 lana 31, Georgetown, D.C. 28 Lehigh 28, Columbia 28, tie Massochusetts 20, Maine 14 New Hampshire 20, Connect Penn 13, Dartmouth 11 Princeton 29, Colgate 3

Robert Morris 28, Gonnon 6 Appalochian St. 5s. Citadel 14
Cant. Florido Si, W. Kentucky 45
Dayton 32. Georgelown, Ky. 29
Duke 27. Georgia Tech 12
E. Kentucky 27. Austin Peay 14
E. Texas St. 28. NW Louisiana 24

E. Textos St. A. NY LOUISIAND 24
Emary & Henry 34, Dovidson 7
Fiorida A&M 29, Howard U. 2
Georgia 17, Mississippi 14
Georgia Couriern 56. Th.-Chothonooga 20
Grambling St. 32, Hampton U. 29
Jacksonville St. 24, N. Carolina A&T 17
Knovnille 27, Macron St. 12 Knosville 22, Mergan St. 13 Morshall 48, W. Virginia St. 0 --Marviand 31, Wake Forest 7 Memphis 16, Arkansos 15 Middle Tenn, 22, Murray St. 21 Miss. Valley St. 18, Jackson St. 16 Miss. Valley St. 18, Jackson St. 16
N.C. Central 24, Bethune-Cookman 5
South Corollino 23, Kentucky 9
Syrocuse 21, East Corollina 18
Termessee St. 32, S. Carollina 5), 28
Temessee Tech 56, Morehead St. 14
Texas Southern 10, Tuskesee 7
Towson St. 51, Charlesian Southern 0
Tray St. 40, Alphana St. 27

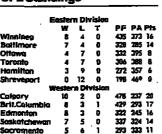
Bowling Green 30, E. Michiga: Butler 28, Wis-Stevens Pt. 16

Cent. Micrispon 45, Kent of Droke 26, Aurora 0 Indiano St. 12, Itilinois St. 7 Kansas 72, Ala, Birmingham Kansas St. 35, Minnesota 0 McNeese St. 34, N. Jowa 24 Wichigan St. 45, Miami, Ohio 10 N. jijingis 49, E. jijingis 17 W. Michigan 19, Akran 6
Youngstown St. 52, Slippery Rock 17
SOUTHWEST
Air Force 47, Texas-El Poso 7
Montana 21, North Texas 17
Oktahama 51, 17, Tutsa 10
SW Texas St. 28, CS Northridge 23
Sam Houston 51, 48, Akram 51, 22

Sam Houston St. 48. Alcorn St. 23 Texus Tech 35, Southern Meth. 7
Texus Tech 35, Southern Meth. 7
FAR WEST
Boise St. 35, Liberty 7
Brishom Young 49, New Mexico 4
Cal Pely-SLO 64, Sonomo St. 30 California 25, Arizona St. 21

California 25, Artzona St. 21
Colorodo St. 17, San Dieso St. 17
E. Woshinston 24, Weber St. 6
Fresno St. 37, Hawadi 16
Idoha SS. Stephen F-Austin 26
N. Arizona 47, Montona St. 30
Nevada 34, NE Louisiano 22
New Mastico St. 24, Artansas St. 17
Oregon 40, Jowa 18
S. Utah 24, E. New Mexico 10
Socromento St. 43, CSU-Chico 7
Son Dieso 29, Col Lutheron 24
Son Jose St. 31, SW Louisiana 28
UC Davis 13, St. Marry's, Col. 0
UNLV 23, Utah St. 21
Ulah 41, Wyoming 7

CFL Standings



5 6 1 293 333 11 5 7 0 353 374 10 F-1day's Game British Columbia 18

lapanese Leagues

Yokult 6, Honshin 3 Yokuhama vs. Yomiuri, ppd., rain Sepday's Results to 1, Yomium i

Nippon Ham 43 76 5 367
Softway's Results
Selbu 5. Nippon Ham 5. 12 Innings. tie
Dalei 10. Orix 9
Lotte vs. Kintetsu, pod. roin
Souday's Results
Selbu 8. Nippon Ham 5
Kintetsu 9. Lotte 2
Orix 7. Dalei 3 Orix 7, Dalei 3

Portuguese Grand Prix Results Sunday in the 71-lap Partuguest Grund Prix of the 4.36-kilometer (2.72-mile) Estaril circott with driver's name, country, make of car, lime and winner's overage speed: 1. Damon Hill, Britain, Williams-Renault,

ne hour, 41 minutes, 10.165 seconds, or 183,589 kph (114,740 mph); 2, David Coulithard, Brildin, Williams-Renoult, 1:41;10,768; 3, Alker Hoikkinn, Finland, McLoren-Peupeot, 1:41;30,358; 4, Rubens Barrichello, Brazil, Jordan-Hart, 1:41;32,168; 5, Jos Verstoppen, Netherlander, Benefit 6. Martin Brundie, Britain, McLaren-Peu-geot, 1:42:02,667; 7. Eddle Irvine, Britain, Jorrion_Hart. 1 ion behind: 8. Christian Fitt

otdelli. Ita's, Footwork-Ford, I los.
Drivers' Standings: 1, Michael Schujnacher, Germany, 76 points; 2 Domon Hill,
Brilain, 75: 1, Gerhard Berger, Austria, 33; 4,
Millo Hakkinen, Finland, 22; 5, Jean Alesi,
Fronce, 17: 6, Rubers Barrichelle, Brazil, 16:
7, David Caulthard, Britain, 14: 8, Martin
Brundie, Britain, 12: 9, Jos Verstabeen, Helland, 10: 10, Mark Blundelb, Britain, 8.
Constructors' Standings: 1, Williams, Re. Constructors' Standings: 1, Williams-Renault, 89 points; 2, Benefton-Ford, 87; 3, Fer-

Hart, 20; & Tyrrell-Yamaha, 13; 7, Ligier-Renoull, 11; 8, Sauber-Mercedes, 10; 9, Footwork-Pard, 9; 10, Minardi-Ford, 5, 1000/7/6

Lancome Trophy Final leading scores Sanday of the \$748,000 Lancome Trophy golf tournament on the par 7th &164-meter (&741-yard) Saint-Nom

78. 4.164-men.

course:
Vilay Singh, Fiji 65-63-69-46-263.

Miguel Gimenez. Spain 67-44-66-47-264.
Severiano Balleteros. Spain 65-67-64-55-265.
Colin Mantyomere. Scotland 69-66-57-8-270.
Jose-Mario Otazabal. Spain 68-68-71-65-272.
Barry Lane, England 71-68-66-47-272.
Mick Faldo, England 69-71-68-68-773.

**** Davis, England 69-46-67-71-273.

***** Davis, England 69-46-67-71-273.

Davis Cup

WORLD GROUP SEMIFINALS

Sweden 1. Uaited States 2
Singles
Steign Edberg, Sweden, def. Pele Sampl
U.S. 6-3, refired, Magnus Larsson, Swed
def. Todd Martin, U.S. 5-7, 6-2, 6-2, 6-4.

Doubles

Jan Apell and Jonas Blarkman, Sweden.

Jared Palmer and Jonathan Stark. U.S. 4-

Singles Yevgeny Kafelalkov, Russia, del. Michael Stich, Germany, 7-5, 6-2. Bernd Karbocher,

PROMOTION-RELEGATION PLAYOFFS

Rairick Raiter, Australia, def. Breit Steven, New Zeoland, 7-5, 4-4, 6-1. Mark Woodfarde, Australia, def. James Greenholgh, New Zeo-land, 3-4, 6-1, 6-2.

Wayne Ferriera and Piet Narval, South Africa, def. Leander Paes and Gauray Natekor, India, 6-4, 6-1,

Singles
Senny Wilaya, Indonesia, def. Patrick
Mahr. Switzerland, 6-1, 6-3. Jacob Hicsek,
Switzerland, def. Suwandi, Indonesia, 6-2, 3-6.

Doubles
Jakob Hicsek and Marc Rosset, Switzerland, def. Banit Wiryawan and Danny Susetyo,
indonesia, 6-3, 7-6 (7-5), 6-2.
Betglum 3, Israel 2
Simples
Filip Dewulf, Beigium, def. Amos Mansdart,
Israel 1-4, 6-4, 7-6, 7-5, 1-4, retired. Gilod Bloom,
Israel def. Christoff Vangarsse, Beigium, 6-1,
1-4, 6-2.

Fills Dewolf and Liber Pi

7. 6-3, 6-7 (4-7) 6-4. Austria 3, Uruguay 1

Singles
Gilbert Scholler, Austria, del. Marcelo Fioini, Uruguay, 4-6, 5-7, 6-0, 6-0, 6-3, Thomas ster, Austria, det, Marcelo Filippini, Uru-

Marcelo Filiapini and Diego Perez. Uru-guov, def. Horst Skoff and Alex Antonitsch, Austria, 7-5, 7-5, 3-6, 6-2.

atia, det. Nuno Marques and Joan Silvae Cu-nha, Portugal, 6-4, 6-2, 6-4,

Kenneth Cartsen and Morten Christenson Denmork, del. Jaime Yzaga and Jose-Luis Norlega, Peru, 4-6, 6-2, 6-7 (7-9), 7-6 (7-5), 6-4.

Armond Stronboch, Latvia, def. Mehdi Tu-hiri, Merocco, 1-4, 8-4, 6-2, Hichom Arazi, Mo-rocco, def. Girts Dzeide, Latvia, 6-2, 6-4, Doobles

Doobles
Hicham Arazi and Younes El Aynooui, Morocco, def, Girts Dzeide and Andris Fimimanrocco, def. Girts Dzeide and Ar avs. Latvia, 6-3, 1-6, 1-6, 4-6,

Singles
Frunk Oferi, Ghona, det. Uztek Bazic, Slovenia, 6-1,7-4, (7-5) 2-6, 7-5, isaac Danker v. Blaz
Trupel, 7-5, 2-4, 6-7, (6-8), 7-4, (7-3) (motch

No an agreement with the second

SPANISH FIRST DIVISION Valladolid Q, Real Zaragoza 2 Barcelona 4, Composite D Departiva de la Coruna 1, Espanol 1 Real Modrid 4, Albieric de Bilboo 8 Logrones 1, Albacete 1 Tenerife & Sevilia 0 Real Sacledad Q, Valencia 2 Ovisdo 1, Atistico de Madrid 0

Taily 4. Hungary 1

Sinules

Andrea Gaudenzi, Italy, def. Sandor NoszoIy, Hungary, 6-1,6-3, Jazsef Krocsko, Hungary,
def. Renzo Furian, Ifaly, 2-6, 7-5, 6-1.
Doubles

Christian Brandi and Stetano Pescasolida,
high, def. Loszio Markayits and Gaber
Noyes, Hungary, 6-2, 4, 6-4, 4-7, 7-7, 9-7.

Barting Brandi Christian Brandi Christian Brandi Christian Brandi Christian Pescasolida,
Noves, Hungary, 6-2, 4, 6-4, 4-7, 7-7, 9-7.

Sonyes, Hungary, 6-2, 4, 6-4, 4-7, 7-7, 9-7.

ogranes 2, Rocins de Sonlander 1. ENGLISH PREALIER LEAGUE Okburn 3, Aston Villa 1 entry 1, Southempton 2 Crystal Palace 0, Cheisea 1 Her City 2. Norwich 0

rcastle 1, Liverpool 1 ens Park Rangers & Wimb lenham 1, Nottingham Fore West Hom 0, Arsenal 2 Standings: Newcastle 19, Bio

pswich 7, Queens Park Rangers 6, She

try 5, Crystal Polace 4 Everton 3.

GERMAN BUNDESLIGA GERMAN BUNDESLIGA MSV Duisburg Q, Werder Bramen 2
Eintracht Frenkfurt Q, Berer Uerdinge
Borussia Dorimund 5, VR Stuttgert Q
FC Cologna 3, Kortsruhe SC 4
FC Kaisersloutern 3, Schalike 1
Hombore SV 2, Dynamo Dresden 1
Moenchenelothoch 7, VR, Bochsm 1
SC Freiburg 1, Boyer Leverfasen 1
Stondings; Werder Bramen 11 points, 1
stells Dorimund 8, Kortsruhe SC 9, Bon

Annenga: Werder Brennen 11 points, Berussia Dortmund 9, Kenteruhe SC 9, Beyern
Aunich 9, FC Kolserskoulern 9; Hemburg SV 4,
SC Freiburg 2, VHS Stuffsort 7, Beyer Lavertusen 4. Moenchessicoboort 4. Scholite 4, Beyer Uertlipsen 5, FC Colosne 4, Einfrecht
Fronkfurt 4, Dynamo Dreaden 3 MSV Dulsburg 2, VHL Bochum 2, 1840 Munich 1.

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-124 Fig.

FRENCH FIRST DIVISION

Lens D, Connes 2 Litle 1, Coen 1

Unie 1, Coen 1
Ports 5G 1, Austerre 1
Nice 1, Norites 3
Rennes 1, Metz 2
Mortigues 5. Bastia 2
Stondings: Norites 24 points, Lyon 21,
Connes 19, Mortigues 18, Bordeaux 17, St. Effence 16, Lens Ia, Strusbourg 15, Peris St. Germain 15, Adverse 14, Remnes 13, Nice 12, Le Havre 11, Bastia 11, Sochout 10, Manaco 9, Metz 9, Litle 9, Montpettler 7, Coen 4.

DUTCH PIRST DIVISION Alex Amsterdom 3, Dordrecht 10 0 Vitesse Arnhem 2, Sporta Rotterdom Twente Enschade 4, Heerseveen 3 NAC Bredg 2. Rodg JC Kerkrade 4 MVV Maastricht 3, Utrecht 2 Feyenoord Rotlerdom 0, Willer Stendings: Twente Enschade 10 Points.
MAVV Moastricht 8, Utrecht 8, Alex Amsterdam 7, PSV Einhoven 7, Fevenoord Rohlerdom 6, Rode JC Kerlerde 6, Willen 11 Tibure 6, NEC Nilmepen 5, Vitesse Amhern 5, Votendam 4, RKC Washvilk 4, Herranvern 4, NAC

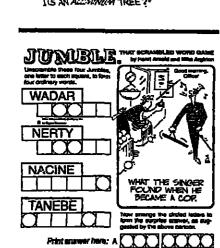
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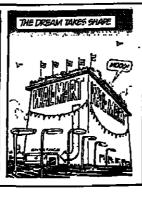


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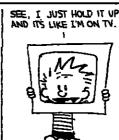
















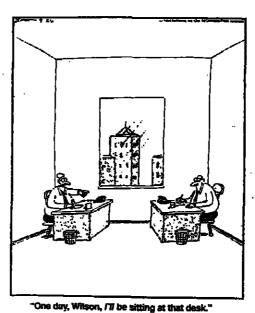
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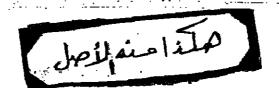


THE FAR SIDE









SPORTS

Round Underdogs Both, Russia and Sweden Will Meet in Davis Cup Final Summas Injury Brings a Surprise En

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Compiled by Our Staff From Dispatch HAMBURG - Germany's future as a Davis Cup power looked bleak Sunday after it was eliminated in the semifinals by Russia, which reached the final for the first time.

Russia completed a 4-1 victory over the defending champion, as Yevgeni Kafeinikov beat Michael Stich, 7-5, 6-3. Bernd Karbacher scored Germany's only point, beating Alexander Volkov, 6-4, 6-1. Russia had already made

sure of reaching its first Davis Cup final by sweeping the opening singles and winning Saturday's doubles.

With Stich and Boris Becker,

Germany would have one of the strongest teams in the world. Becker, however, has refused to play for Germany the last two years and Such now says he, too, may quit.
"I will give the German Ten-

nis Federation a list of things that have to be fulfilled, otherwise I won't play any more,'

Stich said. "I like playing Davis Cup but we'll have to wait and see what happens," he added.

After a meeting Sunday with Stich, federation officials said he would play next year. Stich blasted the federation

for what he said were inadequate security measures following a deal with the problem in a prodeath threat he received before the match against Russia. The threat turned out to be a

hoax. Stich said the man, who introduced himself as a Becker fan, called him back a day later to apologize, saying the threat was a joke.

The threat cast a cloud over the semisinal match at the Rothenbaum club, where Mon-



There was nothing Michael Stich could say Sunday after he lost to Yevgeni Kafelnikov in the Davis Cup semifinal.

ica Seles was stabbed in the should have told him what was back in April 1993 by a specta- being done." tor who jumped from the stands. Seles, who was then the the 30-minute discussion with top-ranked woman player in Stich had been amiable. the world, has not played since.

Stich accused the German federation of not taking the threat seriously and of failing to fessional manner.

The federation defended its security measures, and said Stich was not aware of the 17 plainclothes policemen who

were on duty at the court. "We have to admit things did not run without mistakes," said the federation's general secretary, Günter Sanders, "It was a

tion's president, said after meeting with Stich that "noth-

ing stands in the way of him playing next year." Even if the dispute over the threat is quickly forgotten,

Sanders said, however, that

Claus Stauder, the federa-

there are other problems. For the first time in a decade, a Davis Cup match in Germany was not sold out. The German captain, Niki

Pilic, and the players had wanted to play in an indoor hall on a But the federation, which is communication problem. We

based in Hamburg, picked its in 1988 and 1989, and Stich led home arena at Rothenbaum the team to the title last year. and installed a new hard court surface on which Stich reached he is welcome back, but only if the final of the U.S. Open earli- he plays the entire year and not er this month.

It did not help. Stich was uphe learned that the death threat drawing card for German fans, was a hoax.

play on the surface that I want- mising position. ed," said Pilic, whose team lost the 3-2 defeat by Sweden in the world," Stander said, "We must

Germany, led by Becker, won team together." (AP, Reuters)

Becker's return seems uncerover the usual clay surface. The tain. Stich, who has feuded with hard court was similar to the Becker in the past, and Pilic say

only in the later rounds. Federation chiefs, aware that set by Volkov on Friday, before Becker remains the biggest want Becker to return, even if "I don't want to look for ex- he plays only one or two cuses, but this was the first time rounds. They have publicly in 12 years that my team did not chided Pilic for his uncompro-

"With Becker we are perhaps at home for the first time since the strongest team in the continue efforts to bring this

💈 Sampras Injury Brings a Surprise Ending

By Christopher Clarey Special to the Herold Tribune GOTHENBURG, Sweden

- Magnus Larsson leaped over the net on Sunday with his long arm extended, eager to shake Todd Martin's hand as quickly as possible and get started with the celebration.

It was a celebration few of Larsson's fellow Swedes could have hoped for on Friday, when this Davis Cup semifinal got off to a decidedly pro-American start. But that was before Jan Apell and Jonas Bjorkman dominated Saturday's doubles, before the ever-fragile Pete Sampras was forced to retire after only one set against Stefan Edberg because of an acute stram in his right hamstring, and before Larsson imperiously shrugged off Martin's higher ranking and served Sweden straight into its ninth final with a 5-7, 6-2, 6-2, 6-4 victory.

"I think this one might get a good place in the history said Edberg.

Just as in 1984 for the Davis Cup final, the Americans rolled into Gothenburg as solid favorites. Just as in 1984, they got bushwhacked. Only this time, the Swedes' improbable 3-2 victory had more to do with an American breakdown than a Swedish breakthrough.

"Our trainer and doctor did a great job keeping Humpty Dumpty up, but eventually we fell off the wall," said the Amer-

ican captain, Tom Gullikson. Sampras, the world's No. 1 player, took the roughest turnble. He arrived in Sweden painfree but in mediocre physical condition, having played only four matches in the last two months because of tendinitis in his left ankle. After performing well in his opening singles victory against Larsson, he woke

up on Saturday and had diffi- from the first three or four culty sitting down because of behind his right knee.

cian, George Fareed, Sampras one was tugging at my hamhad severely strained the semi-string." tendinosus muscle in his right hamstring, a muscle that extends below the knee joint.

I must have strained it in my match against Larsson and not adrenaline and heat of the batstruggled with leg injuries lost the set, 6-3. throughout his glittering, six- That would be year professional career.

for only about 20 minutes with Martin on Saturday morning. But after receiving treatment for the next 24 hours - treatment that included massages and wrapping his leg in ban-dages soaked in anti-inflammatory medication - he declared himself fit enough to play

against Edberg.
Gullikson, who could have used Jonathan Stark or Jared

to play: I went with his feelteam needed only one victory in Sunday's two reverse singles matches to clinch a spot in the final against Russia.

From the start of the match, it was clear that Sampras had overestimated his powers of re- control of the match. cuperation. Even during warip, he was sluggish, and as confident, Sampras began to skier the morning after his first

day on the slopes. the baseli "I knew I was in bad shape forehand.

games on," Sampras said. "I pain in an entirely new area: knew in a long five-set match, I chind his right knee. wasn't going to win. It felt like
According to the team physi- whenever I lifted my leg, some-

Sampras, who had taken Tylenol before the match, took two anti-inflammatory tablets on the changeover at 4-1, and proceeded to hobble his way have known it because of the back to 4-3. But after having his right knee wrapped by trainer tle," said Sampras, who has Bob Russo, he limped out and

That would be all of Sampras the small and understandably Sampras was able to practice delighted Swedish crowd would get to see. After conferring with Gullikson and Russo, Sampras told referee Stephen Winyard he could not continue, thereby becoming the sixth American player to default from a Davis Cup match.

"It didn't make any sense to play on one leg and risk further injury," said Sampras, who has Gullikson, who could have used Jonathan Stark or Jared titles but is only 5-5 in Davis Palmer in Sampras's place, apparently took his young star at putting Todd in this situation."

s word.

Martin appeared set to make
"He thought he would be fine the best of it when he broke Larsson's booming serve in the ings," said Gullikson, whose 12th game to win the opening set. But then in the first game of the second, Martin jumped out to a 30-0 lead and proceeded to lose the next four points and his serve. From that moment on, the mercurial Larsson was in

The lanky, round-shouldered Swede, whose overall singles re-Edberg roared out of the cord in 1994 was 18-18 entering blocks, winning the first three the match, would finish with 16 games and looking supremely aces and at least that many service winners, most of them move as gingerly as a novice coming wide in the deuce court. He also dominated play from the baseline with his powerful

Singh Rallies To Win French Golf by a Shot

SAINT-NOM-LA-BRE-TECHE, France (Reuters) Vijay Singh of Fiji held off Miguel Angel Jimenez and Seve Ballesteros of Spain to win the Lancôme Trophy golf tournament on Sunday.

Singh shot a final round of 66 to finish with a 17under-par tournament record total of 263, beating Jimenez (67 for 264) by one shot and Ballesteros (65 for 265) by two.

Singh was one shot behind his rivals after 13 holes but drew level with a birdie at the 14th hole.

The match came to a thrilling climax with all three at 16 under after 16 holes. But Singh, who had birdied the 16th, holed a 15foot putt for a birdie three at the 17th where Jimenez could gain only a par and

Ballesteros had a bogey five. On the final hole, Jimenez and Ballesteros both hit the green, with Singh in a bunker, but the Fijian played a magnificent sand shot, which hit the hole and left him a tap-in putt for victory.

SIDELINES

7th British Athlete Fails Drug Test

LONDON (Reuters) - The English javelin thrower Colin Mackenzie proclaimed his innocence Sunday after becoming the seventh British athlete to fail a drug test this season.

The 31-year-old Mackenzie, who took a painkiller containing a banned substance for an ankle injury, declared: "If it did anything to boost my performance, then I'm a monkey." Mackenzie tested positive for the stimulant dextropropoxphene at a meet in Italy on July 24. He now faces a three-month suspension.

Australia Extends Horse-Racing Ban BRISBANE, Australia (AP) - An order banning racing in

southern Queensland state was extended Sunday in an effort to

prevent the spread of an illness that has killed 13 horses. The order, introduced on Friday, was renewed after pathologists failed to identify the illness. All racing, including trotting meetings, has now been banned until next weekend.

China Official Won't Go to Japan

TOKYO (Reuters) — Li Tieving, a Chinese official, has canceled a visit to Japan for the Asian Games to protest plans for the Taiwanese deputy prime minister to attend, Japanese news media reported on Sunday.

The cancellation is China's latest expression of anger in a dispute that developed after the Olympic Council of Asia invited President Lee Teng-hui to the games, which begin next Sunday.

For the Record

17 Cecil B. DeMille

20 Prohibition

21 Pilgrim John

22 What a ring

28 Plate scrapings

as English-French conflict

39 Greek vowel

40 Bay window

42 "Scram!"

41 Prefix with pilot

56 What 17-Across

beginning 1337

29 in a momen

36 Peculiar

32 Fast plane

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The Phoenix Suns sent forward Cedric Ceballos to the Los ngeles Lakers for a future first-round draft pick. (Reuters)
The WBA flyweight champion, Saen Sor Ploenchit of Thailand, Angeles Lakers for a future first-round draft pick. retained his title on Sunday with a unanimous decision over Kim

Yong Kang of South Korea in Kanchanaburi, Thailand. (Reuters) The unbeaten Kevin Kelley retained his WBC featherweight title on Saturday in a second-round knockout of José Vida Ramos in Altantic City, New Jersey. (Reuters)

Regilio Tune of the Netherlands defeated Eugene Speed of the United States in a unanimous decision in Rotterdam for the WBO super-featherweight title.

CROSSWORD

author Bram

Egg McMuffin As Breakfast Of Champions?

New York Times Service NEW YORK - Given the galloping commercialism of the Olympics, it was perhaps inevitable that the training table would come equipped with a drivethrough window.

McDonald's recently announced that it will operate six fast-food restaurants at the Olympic Village during the 1996 Summer Olympics in Atlanta, feeding 15,000 athletes, coaches and officials free of charge, if not free of fatty, fried foods.

Some athletes are concerned that fast food may fuel their racing engines with an empty tank,

Ninety-pound gymnasts wolfing down Big Macs is likely to be as rare a sight as the Dream Team losing a basketball game. Still, the McDonald's restaurants in the Olympic Village figure to be full, serving 7,500 meals a day.

For those who want to skip fast food, a cafeteriastyle restaurant service will provide the bulk of food to Olympians, Atlanta offi-

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LANGUAGE

The Clank of Falsity and of Marley

By William Safire
WASHINGTON — In a political harangue far from the nonpartisan confines of this space, I disparaged some action of the First Lady with this metaphor: "The clank of falsity goes to the top.'

This criticism elicited a spirited response, which I enjoyed reading, from the Clintons' private at-torney, David Kendall of Williams & Connolly. Then, a few days later, in an interview with The Wall Street Journal, Kendall denied another accusation from another source, charging it had "the unmistakable and clanging ring of falsity."

A clang is not a clank. Kendall, said to charge

clients \$400 an hour, is meticulous in his choice of words. I called him, quickly dispensed with the nonlinguistic matters covered in his response to me as the horrendous Mr. Hyde, then assumed my natural Dr. Jekyll identity: Why did he

change the k in clank to the g of clang?

"I had in mind a counterfeit coin," Kendall said. "In my aural sense, gongs and cymbals clang, while chains — the ghost of Marley comes to mind — clank. To me, the false ring of a fake

coin is a clang."

His carefully considered change of my clank deserves examination.

Clang is rooted in the Latin clangere, "to resound," and was used in ancient times to describe the reverberating sound of a trumpet. Some etymologists think it is akin to the Greek klazein, "to scream or bark," and the Old English hliehhan, "laugh." In modern English, the verb made its debut in 1576 in "A Panoplie of Epistles" by Abraham Fleming: "By the clanging trump of swift report, proclaimed." It became a noun 20 years later, defined as "a loud ringing metallic sound" with a second sense of "a harsh cry of a bird (as a crane or goose)."

Contrariwise, clank can claim no proud Latin lineage. First sighted in 1656 (when the poet Abraham Cowley wrote, "No clanck of Chains was known"), it is probably imitative in origin, like the onomatopoeic zap or the echoic hiss. An Oxford English Dictionary lexicographer anticipated the contretemps I would have with Kendall, defining clank in contradistinction to clang. According to the O.E.D., clank is "a sharp, abrupt sound, as of heavy pieces of metal (e.g., links of a heavy chain) struck together; differing from clang in ending abruptly with the effect of a knock."

Kendall's reference to Jacob Marley, who wore chains in his ghostly visit to Ebenezer Scrooge in "A Christmas Carol" by Charles Dickens, is therefore correct: those chains clanked. The O.E.D. also suggests that clank is the offspring of clang crossed with clink, "to express a sound intermediate to the two, which

Europe

has the quality of a 'clang,' but is abruptly shortened like a 'clink.'"

However, the sound of a counterfeit coin's being tested by being dropped on a hard surface would not be the pure, bell-like ring of silver or gold, but would be brief and off-key -closer to clink than clang. Therefore, in using a metaphor of a metal with a false or discordant ring, I prefer clank — the clank of falsity.

"O. J. was so graceful, so ingratiating," Robert Lipsyte wrote in The New York Times this summer, "that it was easy to forget how he got there, a ghetto gang leader, a high school, junior college, major college Alpha male who had learned to knock down anything in his way."

Gary Muldoon writes from Rochester: "Al-

ha? The reference is unclear to me. First thought -fraternity -- nah. In 'Brave New World,' there are different strata of people, with the Alphas on top — could be."

Nah. The fairly frequent phrase Alpha male -135 uses in Nexis, 134 in Dialog — though not in dictionaries yet, nor even in The Barnhart New-Words Concordance, is from ethology.

No. not ethnology, the branch of anthropology that compares cultures; ethology, the study of animal behavior. In two words, an Alpha male is top dog"; to ethologists, it is "the dog at the top of a troop's dominance hierarchy."

"An Alpha male," says Dr. Katherine Houpt, director of the Animal Behavior Clinic at Cornell University, a high human among ethologists, "is the top rank in the hierarchy. From Alpha as the first letter in the Greek alphabet, this term is usually used of the top male in wolf packs, the one that gets to breed and to aggress and has first access to scarce resources like food and the best

place to sleep. Alpha male is the second contribution of ethology to pop psychology and politics. The first was pecking order, a discovery of the Norwegian zoologist Thorleif Schjelderup-Ebbe, who called it hackordning, "peck order." In the social order of chickens, the one at the top is the hen that pecks but is never pecked in return.

I was the owner, though not the master, of a wonderful Bernese mountain dog named James who was an Alpha male. Had he been a chicken. he would have been at the head of the pecking order, but he was no chicken. The trainer said James had "great character," which meant he resented being told what to do. We finally taught him to sit. How does an Alpha male respond to the "sit" command? He waits for you to say it the third time, then sits in the most begrudging way, but to show he's not being submissive, barks, as if to say, "I'm sitting only because I feel like it."

New York Times Service

Chasing Zero: The History of Numbers

By Barry James
International Herald Tribune
PARIS—In the course of its history,
mankind has come up with some bizarre ways of calculating, but until now no one had counted the ways. Enter Georges Ifrah, whose monumental "Universal History of Figures" fills the gap by describing counting methods and numerology all the way back to Cro-Magnon man.

The more than 2,000-page, two-vol-ume encyclopedia is a publishing sensation in France. At 298 francs (\$56) it has sold 120,000 copies in less than four months and has been high on the bestseller list for several weeks.

Ifrah caught the nation's imagination when he appeared on a television show and held up a school report card that gave him a zero in mathematics. This touched a nerve among the Car-

tesian French, who have a love-hate relationship with math. On the one hand, they are told that it is the royal road to success. On the other hand, Ifrah said, they are turned off by the unimaginative way it is taught.

Ifrah, who exudes passionate enthusiasm for his subject, makes math sound like fun. His book, which is in the grand tradition of 18th-century encyclopedists, amazes and fascinates by the scope of its scholarship. It is no less than the story of humanity, told through figures.

Ifrah repaired his early deficiency in math after a friend showed him some of the tricks that one can play with figures. He went on to become a high school teacher of math and wrote three conventional textbooks.

Then, 20 years ago, a pupil asked him how was it possible to calculate using Roman numerals and whence

"I was incapable of replying, and shattered by my own ignorance," he

Since he could find no book that dealt with the subject, Ifrah decided he would write it. He gave up his job and emigrated to Las Vegas, Nevada, in 1974, where he worked as a taxi driver, waiter and night clerk to finance his

With his earnings, plus \$10,000 he won on the slot machines, he traveled



Georges Ifrah tells of counting, all the way back to Cro-Magnon man.

from Mayan pyramids in central America to Inca ruins in Peru and Hindu temples in India, He pored over books in dozens of libraries. He sought the help of anthropologists, historians, archaeologists, ethnologists, mathematicians and people of

many other disciplines. The result was the first edition of "Universal History of Figures," which appeared in 1981, sold a respectable 50,000 copies and was translated into 14 languages. But it was not the book he wanted to write, which was the story of human intelligence across civilizations.

So, financing himself through savings and supported by a wife who believed in him, Ifrah again set off around the world in search of the material that he has poured into the new book. The only thing it shares with the first edition is the title. It contains hundreds of illustrations

drawn by Ifrah. He said he did poorly in art at school as well. Zero was the Holy Grail. When, why and how did men first use it? The ancient Chinese used black and white sticks to stand for negative and positive numbers, but could not conceive of zero. The Babylonians pondered the problem, but never found the answer. "Twenty minus twenty," a scribe scratched on a clay table.

Ifrah believes zero was discovered by Indian mystics seeking to notate the age of Brahma and the extent of the universe. They needed to manipulate very large figures, since Brahma was thought to be three trillion years old. The Indians also had highly developed abstract notions of infinity

and nonsubstantiality. The first known use of zero in a it to be precisely dated to Aug. 25, 458

on the Julian calendar. "It was necessary to have a civilization that was familiar with the void in all its aspects to turn nothingness into a number," Ifrah said, "The zero is one of the most brilliant manifesta-

tions of human intelligence, almost as important as the discovery of fire." Zero opened the way to algebra and modern calculus. It freed men from the need to count on their finsers or toes, or with wooden tallies, knotted

strings and piles of pebbles.

The Arabs quickly adopted Indian notation, but it took a thousand years for it to be adopted in Europe. Gerbert d'Aurillac, who became Pope Sylvester II, brought Arab notation back from Spain in the 10th century. He thereby gained a reputation as a sorcerer and alchemist. In 1643, the Vatican opened up his tomb to make sure no devils were hiding inside.

The priests were not only suspicious of non-Christian symbols, but were also eager to keep their monopoly on knowledge of counting. As Ifrah dis-covered, it is impossible to calculate using Roman numerals. The clerics kept accounts by shuffling pieces on a checker board, which is why the British minister of finance is still known as the Chancellor of the Exchequer, It was not until the wave of learning known as the Renaissance that Indian-Arab notation entered Europe.

Calculate, incidentally, comes from the Latin for "stone," recalling the piles of pebbles that people used to

Ifrah says he was fortunate to grow up at the crossroads of three civilizations in Marrakech, Morocco. From his Jewish family, he knew about the cabala, the ancient system of mystic numerology. He was aware of the vital contribution of the Arabs to scientific and mathematical culture. And his studies in French introduced him to the inquiring minds of the Enlightenment.

Working on the book has made him a profound humanist. Man has the same natural counting ability as a crow.
"What sets us apart," Ifrah said, "is the culture which we transmit from generamodern text, Ifrah discovered, was in an Indian text describing the position to generation. We all possess the same potential for intelligence."

WEATHER

Forecast for Tuesday through Thursday, as provided by Accu-Weather. North America NOTH AMERICA The Great Lakes will have chilly weather at midweek. Boston to Portlend will have locally heavy rains while sunshine will prevail from New Orleans to Chicago. Salt Lake City to Denver will have sunny, hot weather. A slow-moving storm will bring a few showers to San Francisco. Surrope Scandinavis through northem Germany will have cool, wet weather much of this week. London to Paris will have brisk cool weather with no more than a passing shower. A storm near Casablanca will bring locally heavy rains to southern Spain. Athens and Islanbul will be sunny and warm.

ASIZI
Cooler weather will plunge southward through eastern China and Korea early this week. Typhoon Orchid may approach southern Japan later this week. Manila and Hong Kong will have warm weather with a few stray afternoon showers. South central China will have surny, warm weather.

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POSTCARD

The Plaza: A Glittering New Life to Match the Old One

By Enid Nemy

N EW YORK — There must have been a serious shortage of gilt and brocade throughout Manhattan after the Plaza Hotel's face-lift was completed. The rejuvenated 87-year-old glitters almost as blindingly as it did originally, when some of the gold leaf had to be toned down with

bronze varnish. There are still nips and tucks to be made, but no matter. Donald J. Trump modestly calls it "the finest hotel in the country," but then Trump sort of owns it.

Finest or not, it is something to see, especially the refurbished suites that are usually open only to hefty bank accounts

(\$3,500 and \$5,000 a night). The Astor, the Vanderbilt, the Presidential and the Frank Llovd Wright suites were among those open for viewing at a \$75-a-person fund-raiser for the New York Landmarks Conservancy, Although the Astors and the Vanderbilts never lived in those suites, Frank Lloyd Wright did occupy his namesake rooms. Still, Astors, Vanderbilts, Goulds, Wanamakers and Hartimans stayed at the Plaza, as did legends like Diamond Jim Brady, Lillian Russell, Mark Twain and the Beatles.

Cary Grant, a frugal man, couldn't figure out why he was constantly getting only three English muffin halves with his tea and marched down to the kitchen to demand an answer. He was told that the hotel saved the fourth half for orders of eggs Benedict, but

from then on he got his missing half.
The most famous of them all, Eloise, the spoiled 6-year-old who checked in in 1955, poured water down the mail chute and ordered room service to send up a raisin and seven spoons. Fortunately she was fictitious, dreamed up by Kay Thompson,

a singer and comedia The Frank Lloyd Wright suite costs \$3,500 a night. (To think that the Plaza rooms were once \$2.50 - \$4 with bath and suites \$25.) It overlooks both Central Park and Fifth Avenue and Wright lived in it for five years in the 1950s, while he was designing the Guggenheim Museum.

A good deal of the current decor in the rooms is as it was originally, and the austere, verging on monastic, setting is something of an anomaly in an establishment as plush and voluptuous as the Plaza. Wright furniture, much of it reproductions obtained through the Wright Foundation, is in every room: tall, vertical slat-back chairs, curved slatted chairs, a rosy pink wrought-iron table and chairs that might have been plucked from a garden.

The Vanderbilt suite, with three bedrooms and a dining area at one end of the living room (\$5,000 a night, or \$325 for a single bedroom that can be closed off), is distinctive in its fashion; pretty rather than opulent, with a brass chandelier and cream walls detailed with painted floral designs.

The Astor suite is one of many awash in crystal, gold and brocade — pink, cream and rose. There's a fancy bathroom here with a whirlpool bath (with a park view), decorative columns and gold fixtures, including a swan-shaped faucet and, over-looking it, a mural of a little angel floating in a blue and white sky.



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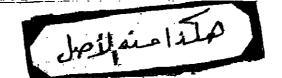
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